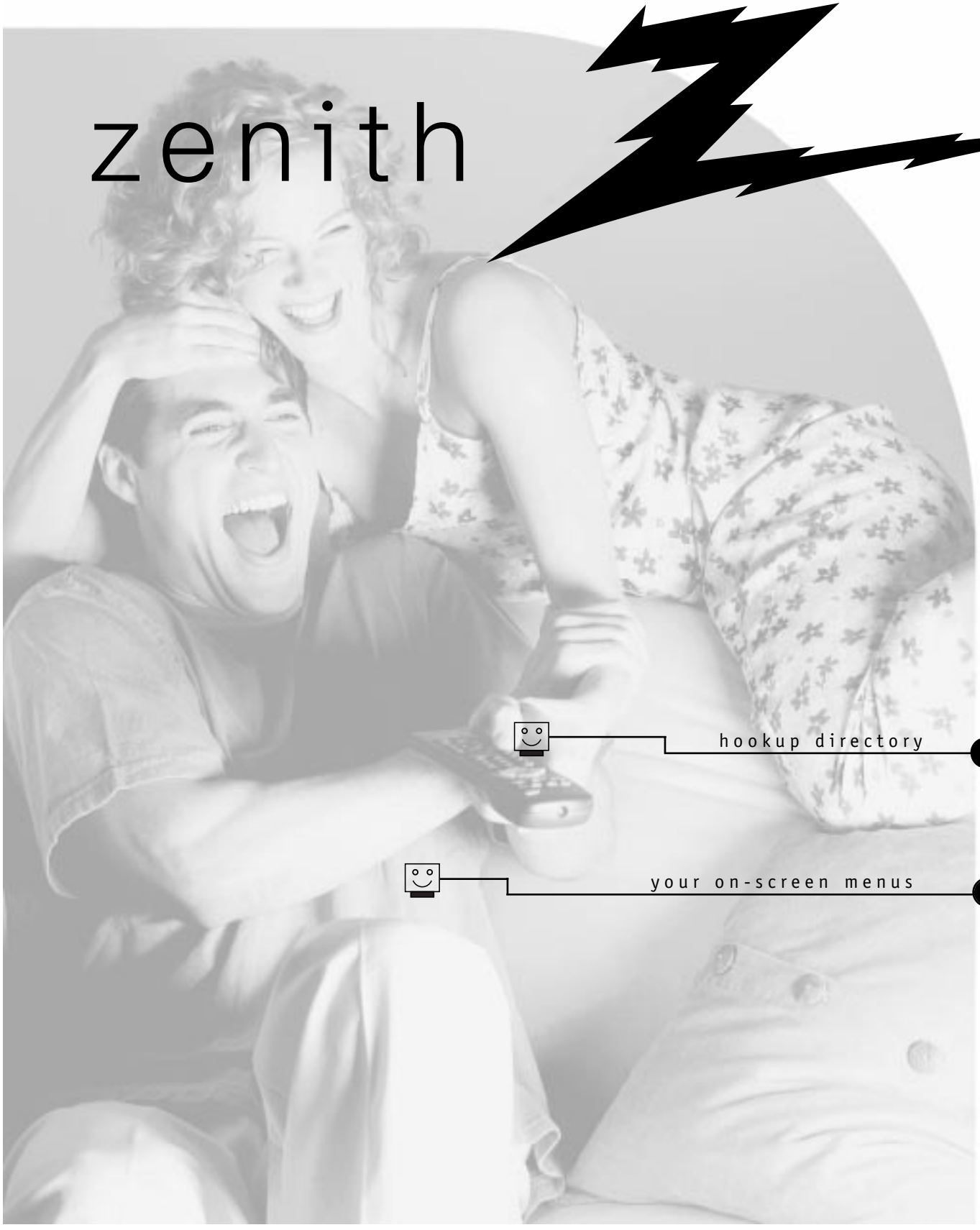
machine number | IQB50M92W | IQB55M92W | IQB60M92W

zenith



hookup directory page 6

your on-screen menus page 20

operating guide / warranty

RECORD YOUR MODEL NUMBER

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO._____

SERIAL NO._____

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: To Prevent Electric Shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

Entertainment Machine is a registered trademark of Zenith Electronics Corporation.

IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7.Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Line-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

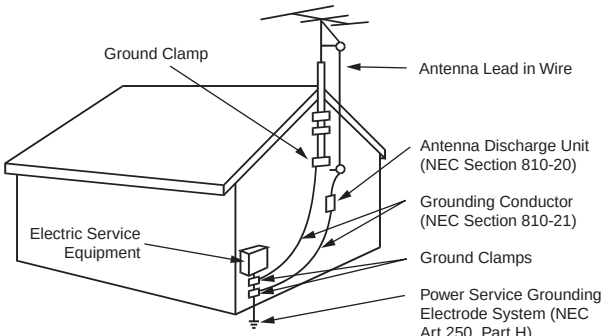
IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Table of Contents

Turn to the next page to begin the TV setup.

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Note: Design and specifications are subject to change without prior notice.

Hookup Directory

IMPORTANT!! Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.

GENERAL HOOKUP INFORMATION

About your Jacks For general information about the jacks on your Entertainment Machine, go to . . . . . page 7

INPUT HOOKUP OPTIONS

Antenna/Cable If you are using an antenna or have direct cable service, go to . . . . . page 8

Cable Box If you are using a cable box, go to . . . . . page 9

VCR If you are using a VCR, go to . . . . . page 10

DVD Player If you are using a DVD Player, go to . . . . . page 11

AUDIO EQUIPMENT OPTIONS

Audio Speakers To hook up your surround sound speakers, mini tower speaker or sub-woofer, go to . . . . . page 12

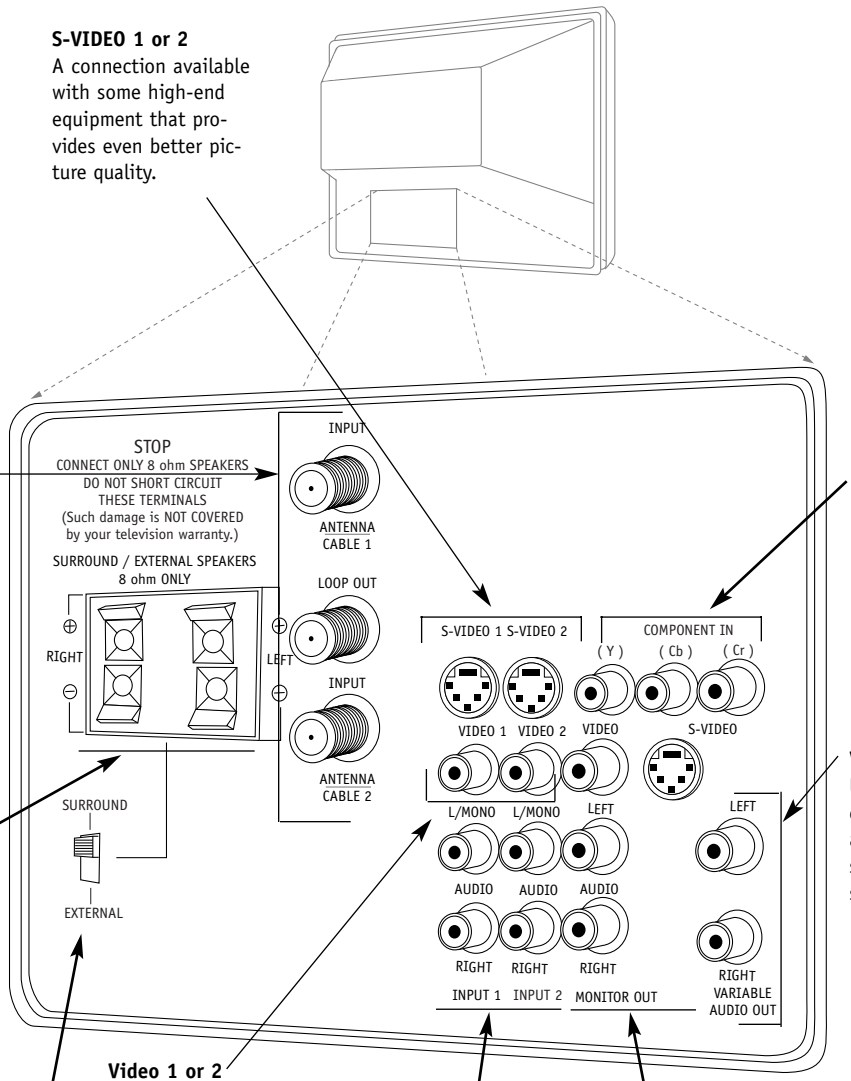
External Stereo To hook up your Entertainment Machine to an external stereo, go to . . . . . page 13

Speaker Placement For general speaker placement advice, go to . . . . . page 14

Audio Video Jacks

Connecting cables to your Entertainment Machine.

S-VIDEO 1 or 2
A connection available with some high-end equipment that provides even better picture quality.



RF Connectors: Antenna/Cable 1, Antenna/Cable 2, and Loop Out
Used to connect cable to the television, either directly or through your cable box.

Y, Cb, Cr Component Video
Some top-of-the-line DVD players use what is called "component video," for extremely accurate picture reproduction. *Refer to your DVD manual for further information.*

Variable Out
Used to connect either an external amplifier, or add a sub-woofer to your surround sound system.

Surround/External Speaker Jacks Right/Left
Used to improve your sound by connecting surround-sound speakers.

Video 1 or 2
Connects the video signals from various types of equipment.

Surround/External Speaker Matrix Switch
Use this switch to choose between the surround and external speaker features.

Right/Left Audio
Used for stereo sound from various types of equipment.

Monitor Out
These jacks provide fixed audio and video signals which are used for recording. Use the S-Video Output for high quality video output.

S-Video Output may be used for recording only when the input is of S-Video type.

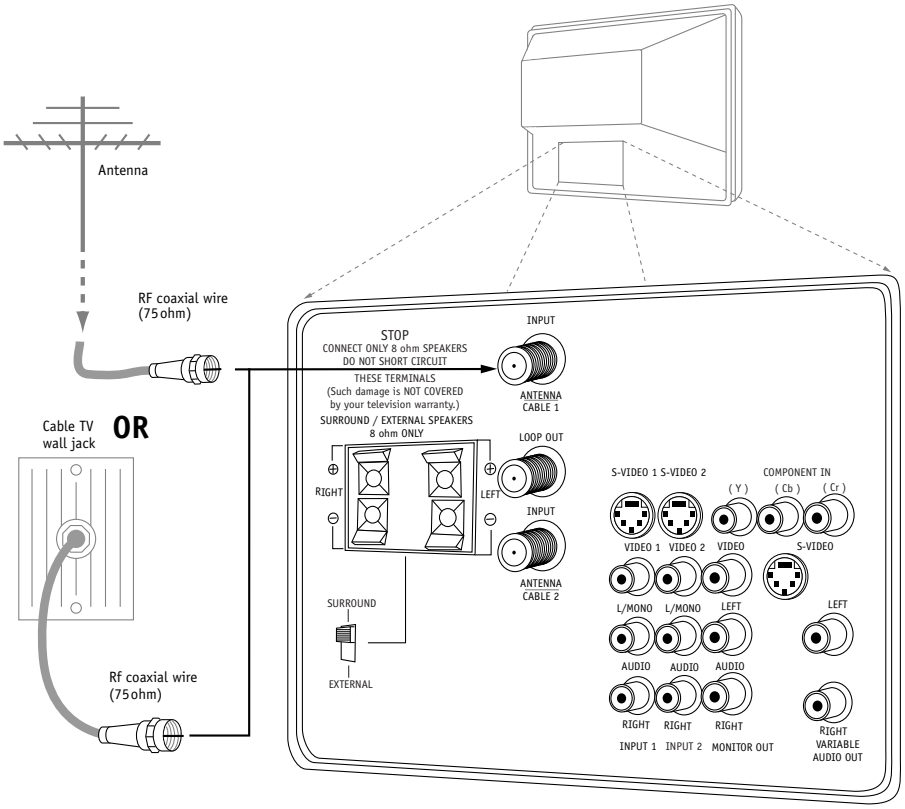
Mini glossary

JACK	A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack and the Audio/Video jacks that are color-coded.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television screen.

Hook Up Direct Cable TV or Antenna

1 Locate the Antenna/Cable 1 jack on the back of your Entertainment Machine.

2 Connect the cable that runs from the wall directly to this jack.



If you receive your RF signal through an antenna that is several years old and connects with two small prongs, you will need to purchase a 300 to 750hm adapter. It should be available from your local electronics dealer.

Zenith recommends using a 75 ohm cable for your antenna connections in order to prevent interference.

Cable Box

Some cable services require the use of a cable box to decode premium channels and pay-per-view. Using the Loop Out to Decoder option, and programming your remote, you can connect your cable box so that you only need your MBR remote to control all the channels. By connecting cable directly to your Entertainment Machine, then running it out to the cable box and back, you make the cable box another source to choose from in the Source selection on your remote.

1 Locate the Antenna/Cable 1 jack on the back of your TV. Connect the cable that runs from the wall directly to the jack. Now find the the Loop Out jack.

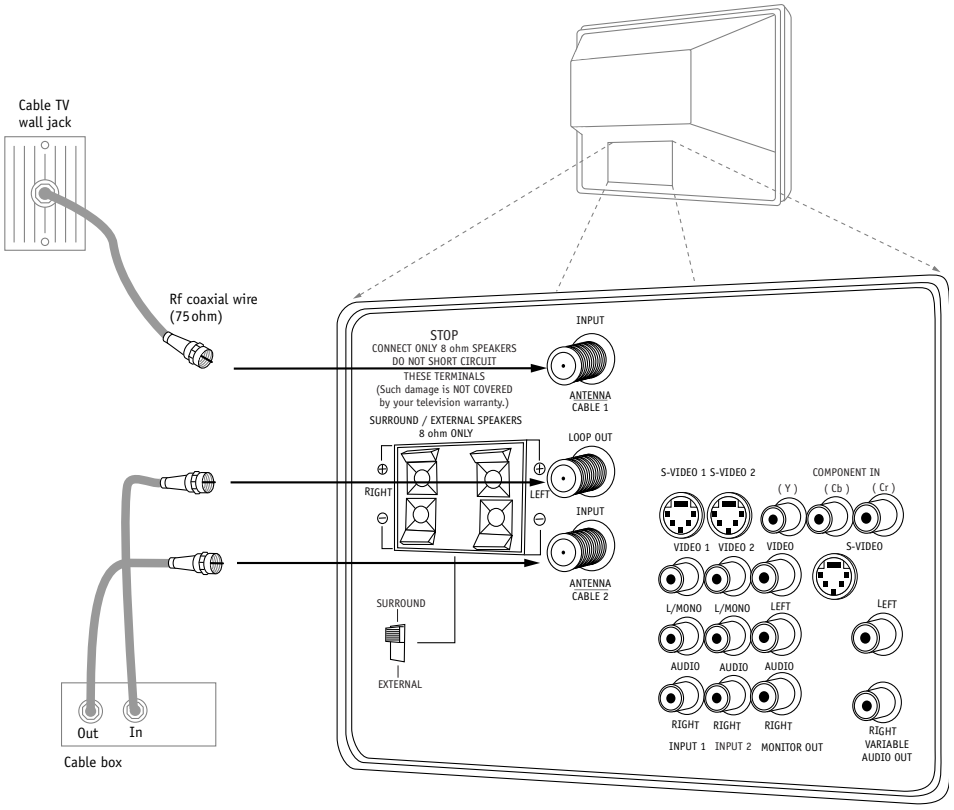
2 Connect the cable from this jack to the Input jack on the back of your cable box.

3 Locate the Output jack on the back of your cable box. Connect this to the Antenna/Cable 2 jack on the back of your TV.

4 To view the premium stations, set the channel number on your cable box to HBO, CINEMAX, SHOWTIME, etc. Then press the Source button on your remote and select the other Cable source (Ant 2).

To view the non premium channels press the Source button and select Ant 1. Then run Auto Program to check for all available channels and store them in memory.

This can be combined with any other equipment you may want to hook up. Hook cable directly into the TV, then to the cable box. From there, the cable box goes to the next device, down the line, until the last piece, which connects back to the TV in the Antenna/Cable 2 jack.



To receive premium channels, run Auto Program on the second source that is set to receive channels.

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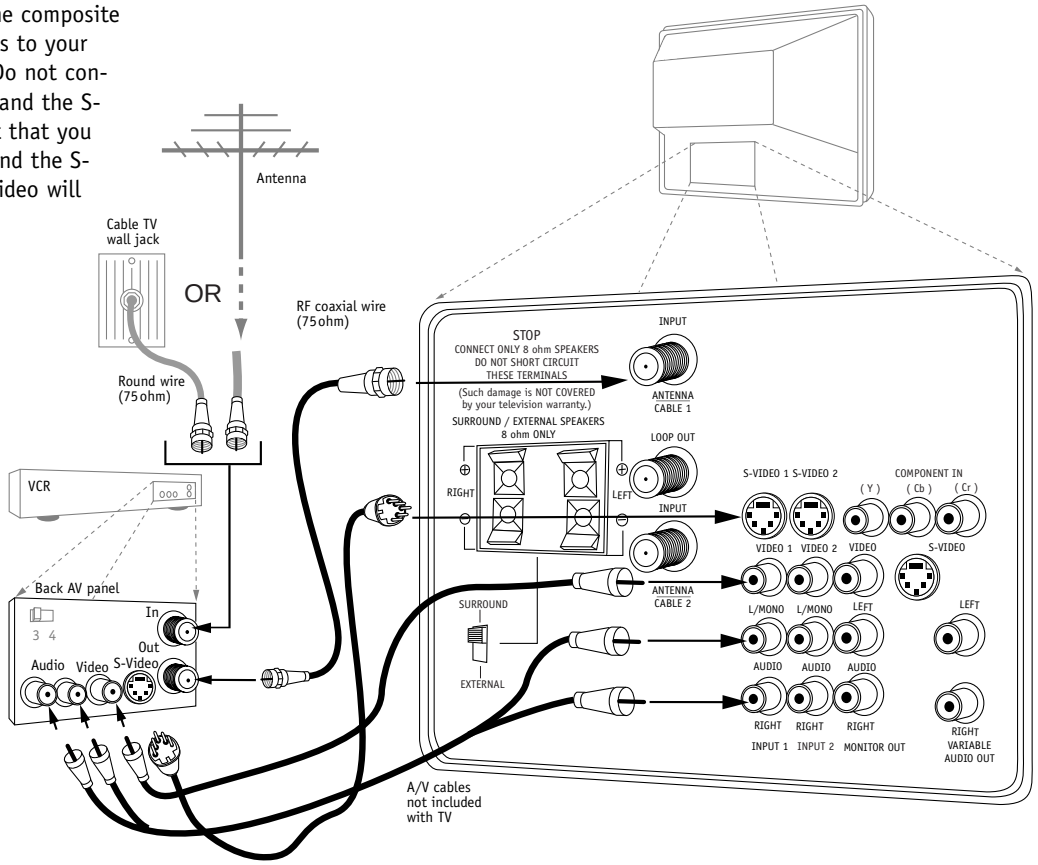
VCR

1 Locate the RF or VHF/UHF/CATV In jack on the back of your VCR. Connect the cable line coming from your wall directly to this jack.

2 Find the composite video and audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment.

You may connect either the composite video or the S-video cables to your Entertainment Machine. (Do not connect BOTH the composite and the S-Video cables. In the event that you connect both composite and the S-Video cables, only the S-video will work.)



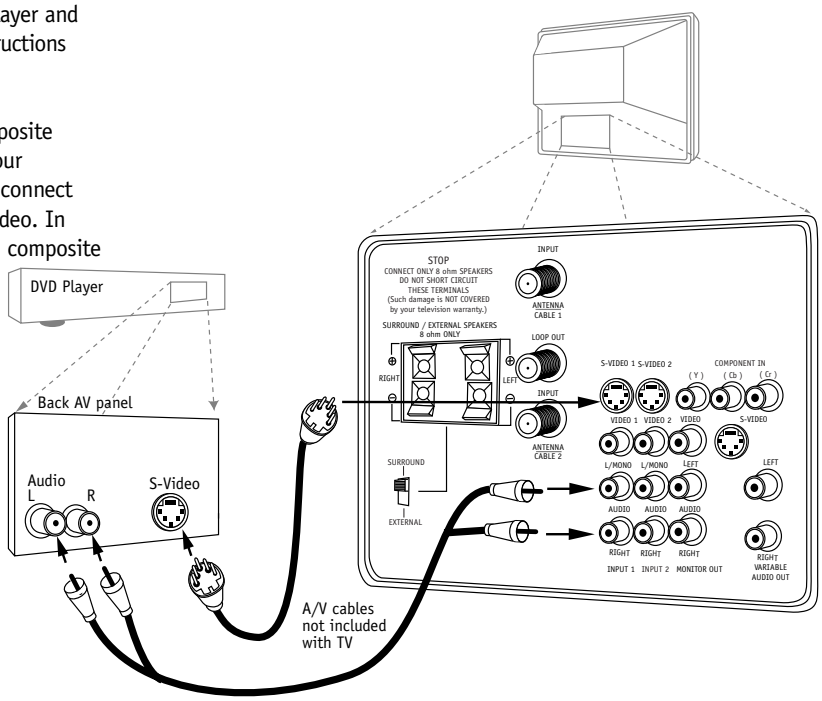
To hear stereo sound from cable or your VCR, you will need to connect A/V cables as well as the wire that runs from the VCR to your Entertainment Machine.

If you want to receive your signals on Channel 3 or 4, locate the Out to TV jack on your VCR. Connect a cable from the Out to TV jack to the Antenna/Cable 1 jack on the back of your Entertainment Machine.

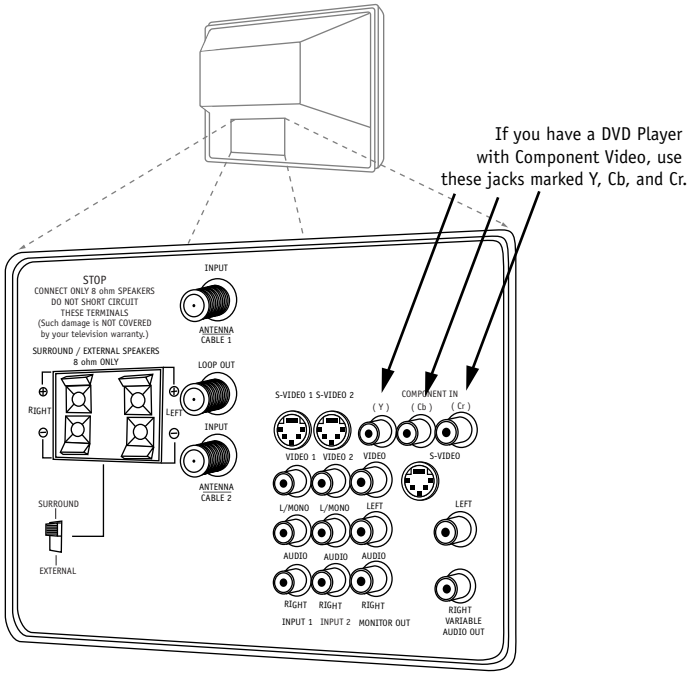
DVD Player

1 Find the audio and composite or S-Video jacks on the back of your DVD Player and connect them following the instructions provided with your equipment.

2 You may connect either the composite video or the S-Video cables to your Entertainment Machine. (Do not connect both the composite and the S-Video. In the event that you connect both composite and the S-video cable, only the S-video will work.)



Some high-end DVD players use a picture reproduction system called "component video." If your DVD player has component output, use the connectors marked "DVD" on the jack panel. Please refer to your DVD manual for proper installation.



For several pieces of equipment, edit the names under Source ID so you don't forget which is which. See page 28.

Mini glossary

COMPONENT VIDEO	Some video equipment uses three separate lines (Y, Cb, Cr) to more precisely reproduce images. Your manual will explain how this relates to your equipment.

Audio Hookups

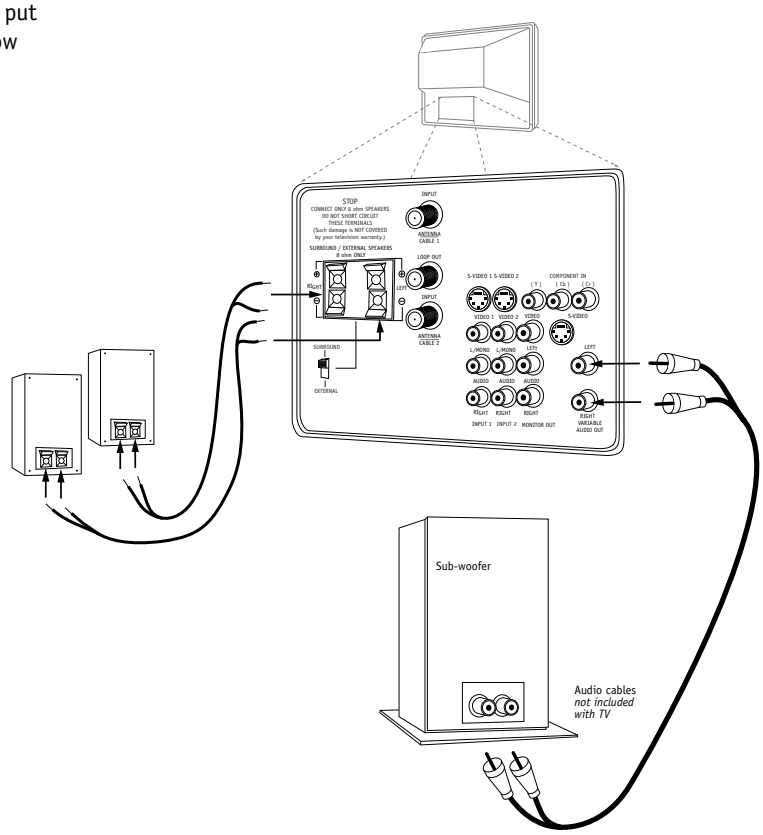
Before you begin connecting your speakers, it's a good idea to put them in their approximate places first. That way you know how much wire you have or will need.

Hook up Left/Right Front Speaker to Amplifier System.

1 Locate the Surround/External Speaker clips on the back of your Entertainment Machine. Connect the wires to the right or left speaker clips, depending on where the speaker is located in your room. The copper wire corresponds to the Negative jack, and the silver to the Positive.

2 Locate the jacks marked Variable Out. These are for the sub-woofer. Connect the sub-woofer's cables, according to their color (red is the right channel, white the left) to these jacks.

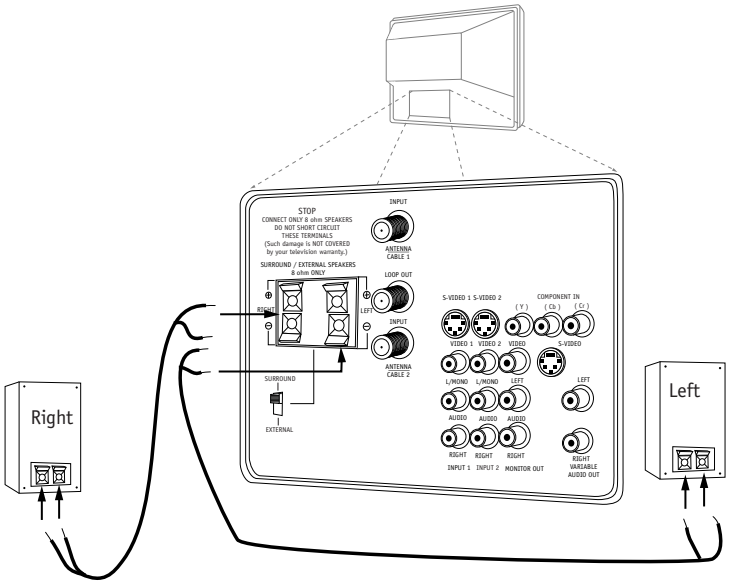
3 Set the Surround/External Speaker Matrix switch into the "External" position.



Hook up Left/Right Front Speaker to Amplifier System.

1 To use your Surround/External Speaker clips as the only audio output, connect the wires for your speakers to the Surround Speaker clips according to the diagram on the right.

2 Set the Surround/External Speaker Matrix switch into the "External" position.



If you happen to have Mini-tower speakers, these will be connected to the back of your sub-woofer, with the jack labeled Satellite Speaker Output.

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External Stereo

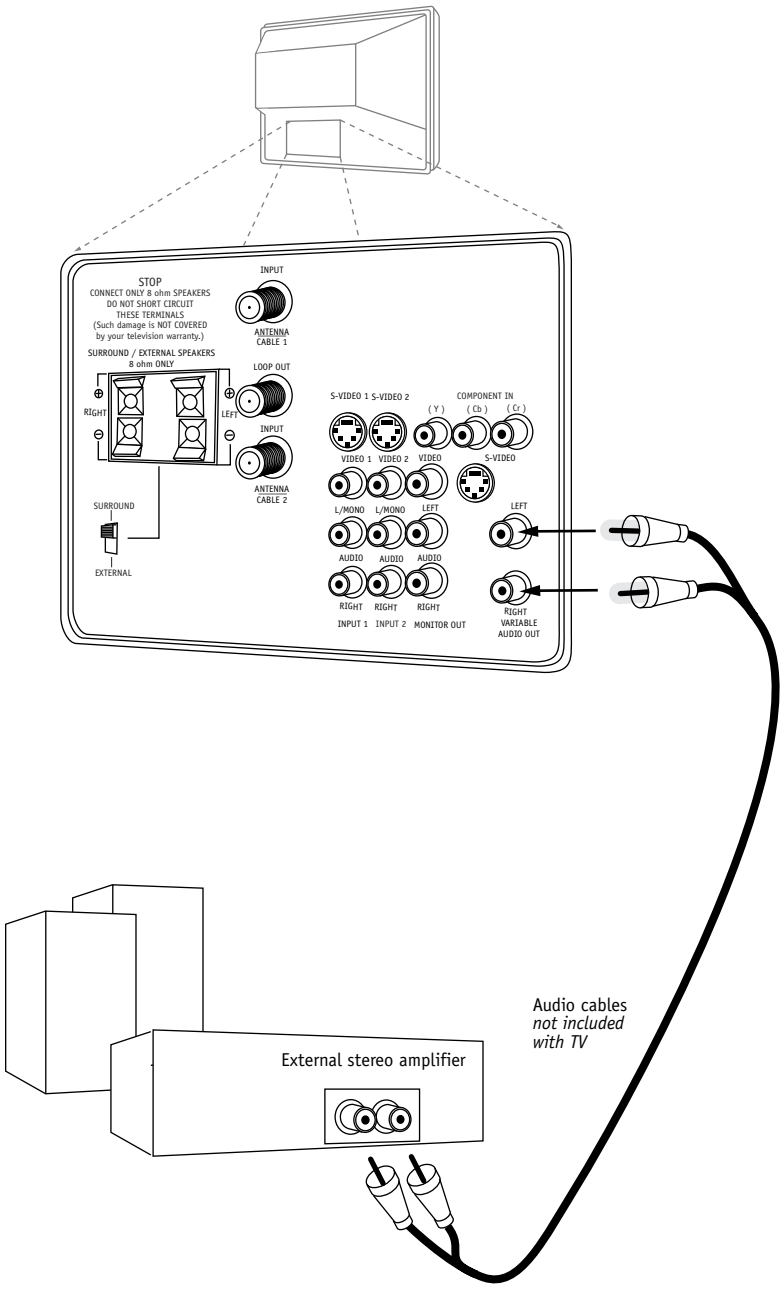
Hook up Left/Right Front Speaker to Amplifier System.

1 Locate the Variable Out jacks on the back of your Entertainment Machine and the Input jacks on the back of your stereo's amplifier.

2 Connect the two jacks, making sure that the right and left channels are placed correctly.

3 Set up your speakers through your stereo, according to those directions.

4 Turn off the internal speakers through the Audio Menu. See page 36.



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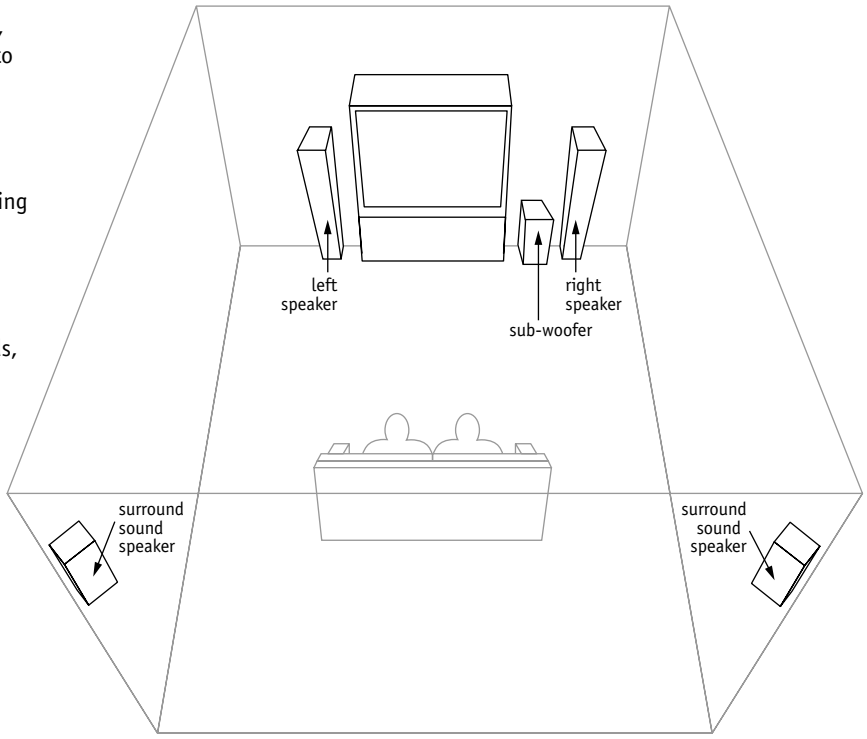
Room Set-ups for Home Theater

General help on designing your home theater set-up.

This is just a general room design. Any number of set-ups are possible, and some changes may be needed to maximize your sound.

A left and right speaker on either side of the Entertainment Machine will create a "center channel," making the dialog sound as though it's coming directly from the Entertainment Machine.
The rear surround sound speakers provide the majority of other sounds, like those from special effects in movies. Your sub-woofer generates ultra-low frequency sound, for rumbling low-end audio.



Sound is affected by speaker placement, so make sure nothing is in front of the speakers, and that they are aimed in appropriate directions.

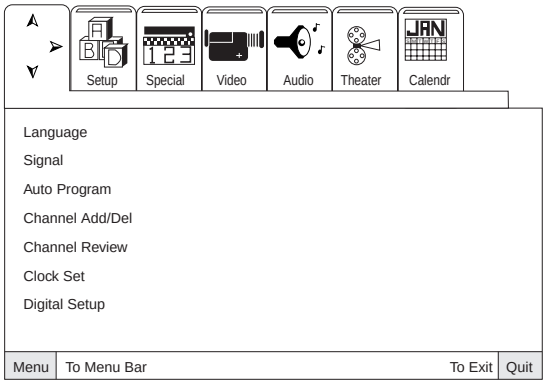
If your surround sound system is on, but there's no sound from the speakers, the program you're watching might not be broadcast in surround sound.

Mini glossary

AMPLIFIER An external device that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

Menu Navigation

This page explains the first four steps you should perform to access any menu described in this manual.

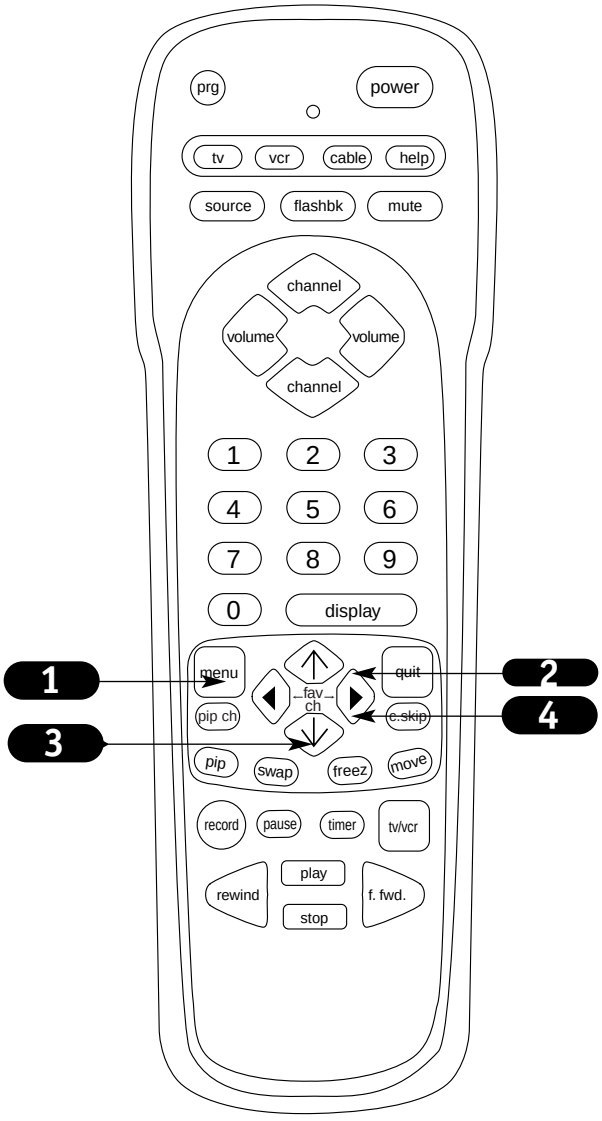


1 Press the Menu to access the on-screen Menu.

2 Press a LEFT/RIGHT arrow button to select the Menu you want.

3 Press an UP/DOWN arrow to select a Menu Item to adjust.

4 Press a RIGHT/LEFT arrow button to activate the Menu Item you wish to adjust.

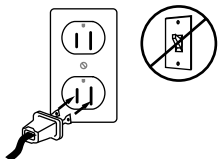


Press QUIT to exit the menu screen at any time.

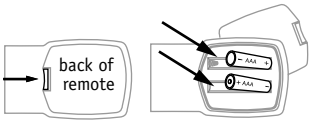
Press MENU to return to MENU cycle through the Setup, Special, Video, Audio, Theater and Calendar menus.

Press QUIT to set your menu selections and return to TV viewing.

1 Use pages 7-13 to hook up your Entertainment Machine. Plug in your Entertainment Machine into a 120V 60Hz outlet.



2 Remove the back of the remote and put in two AAA batteries. Make sure batteries are properly installed (check the +/– signs).



3 Turn on your Entertainment Machine by pressing the POWER button on your remote.

4 Access the Signal item on your Setup Menu by following the four steps on page 15.

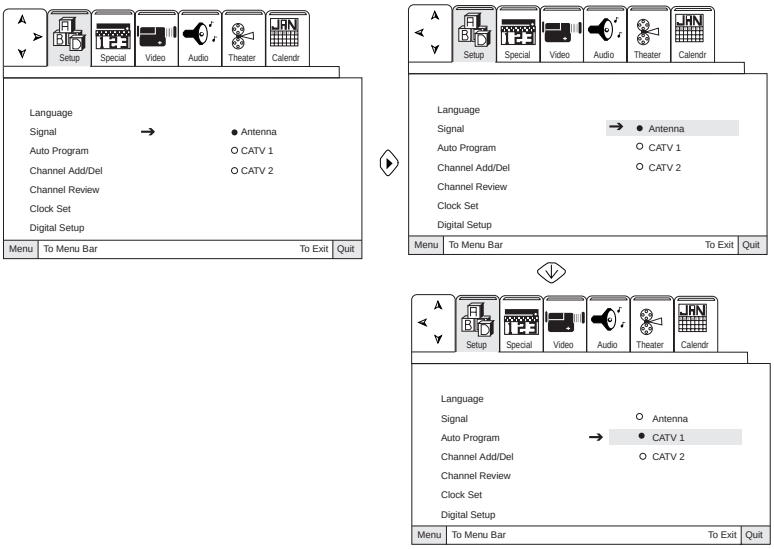
5 Select the signal source of your Entertainment Machine. If your signal comes from an outdoor antenna, select ANTENNA by pressing the RIGHT arrow button. If your signal comes from a cable TV service, select CATV 1 by pressing the DOWN arrow button, then the RIGHT arrow button. When you have made your selection, press the MENU button to return to the Setup Menu.

6 Now access the Auto Program Menu Item by pressing the DOWN arrow button on your remote.

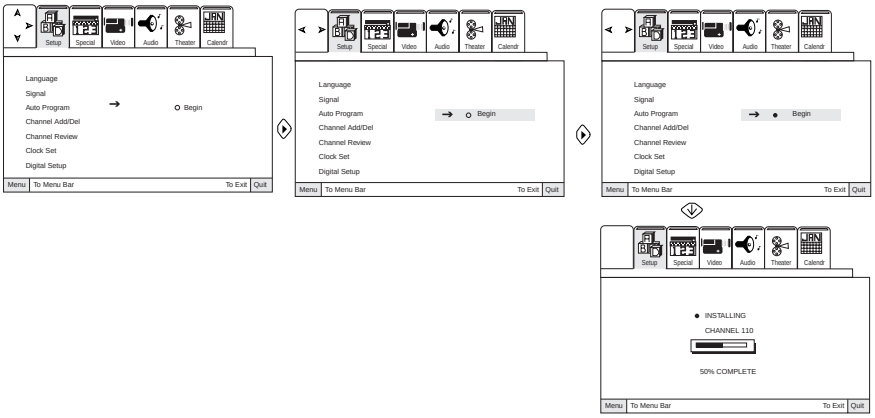
7 Press the RIGHT arrow button to select Auto Program and then press the RIGHT arrow button again to begin Auto Programming.

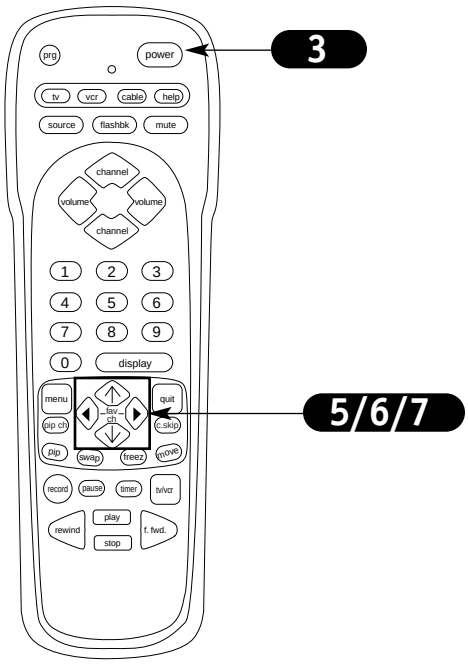
If certain CATV channel are poor or not possible in CATV1 mode, set signal to CATV2 mode.

Signal source selection:



Auto Program:





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Button Functions on Your Remote

All the buttons on your remote, and what they do.

PRG
Press to begin Programming your remote.

MODE
Adjust which mode your remote is working in, TV, Cable Box, or VCR.

SOURCE
Cycles through the available sources on your Entertainment Machine.

FLSHBK
Return immediately to the last channel viewed.

VOLUME LEFT/RIGHT
Increases/decreases the sound level

ARROW KEYS
Allows you to move through on-screen menu choices. When Menus inactive, arrow buttons activate Favorite Channels feature. (Must set Favorite Channels first).

MENU
Displays on-screen menus.

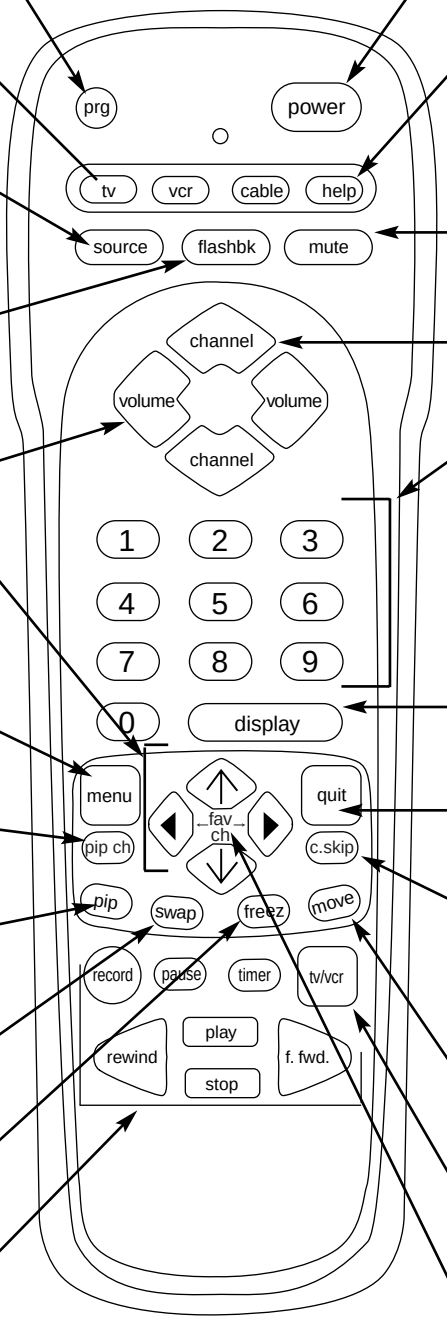
PIP CH.
Select between Main Picture and PIP display tuning control.

PIP
Activates the PIP feature, large, small and single, surf.

SWAP
Swaps between your Main Picture and the PIP Display.

FREEZ
Freezes and strobe PIP display.

RECORD, PAUSE, TIMER REWIND, PLAY, STOP F. FWD
These buttons are used to control your VCR (even if your remote is in TV mode!).



Remote Control Part Number
MBR 3474Z
924-10043

POWER
Turn your Entertainment Machine and all other programmed equipment on or off.

HELP
Activates the on-screen Help feature.

MUTE
Press once for Soft Mute, and again for full Mute.

CHANNEL UP/DOWN
Scroll through your available channels.

NUMBER KEYPAD
For direct channel selection and programming functions. To add a 3 digit channel number press the 1st number wait until 2 dashes show up to the right of that number then add the other two numbers. In Digital Setup number buttons select points in digital array.

DISPLAY
Shows current on-screen settings.

QUIT
Leaves programming menus and clears screen of displays.

C. SKIP
Channel Skip. Tunes Entertainment Machine to last channel viewed. Tunes back to original channel after 30, 60, 90, 120, 150, or 180 seconds.

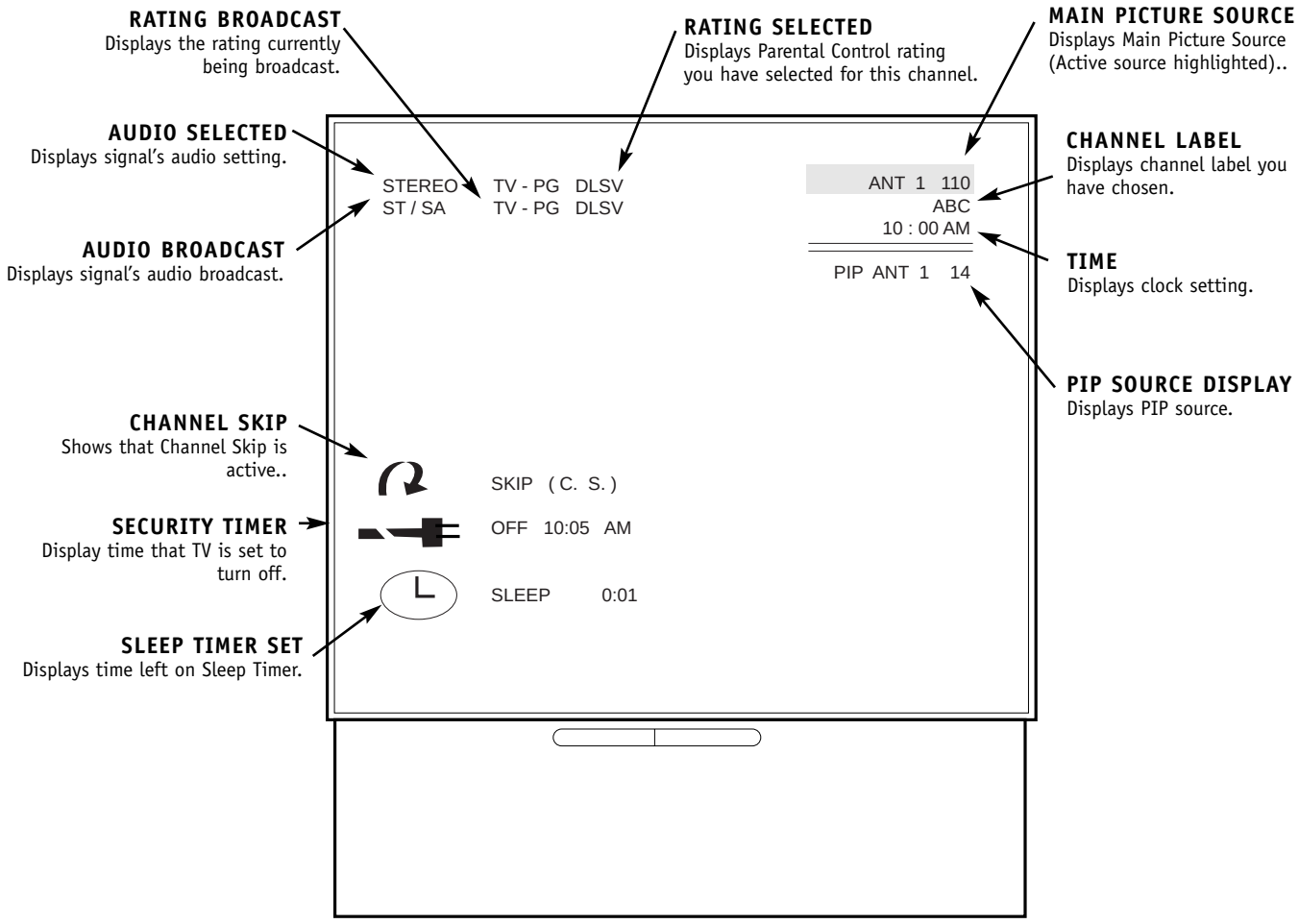
MOVE
Moves PIP display over four corners of screen.

TV/VCR
Selects TV or VCR as your signal source.

FAVORITE CHANNEL (RIGHT/LEFT ARROWS)
Select among 6 different channel groupings.

On-Screen Display

This page describes your on-screen display options.



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Front Panel

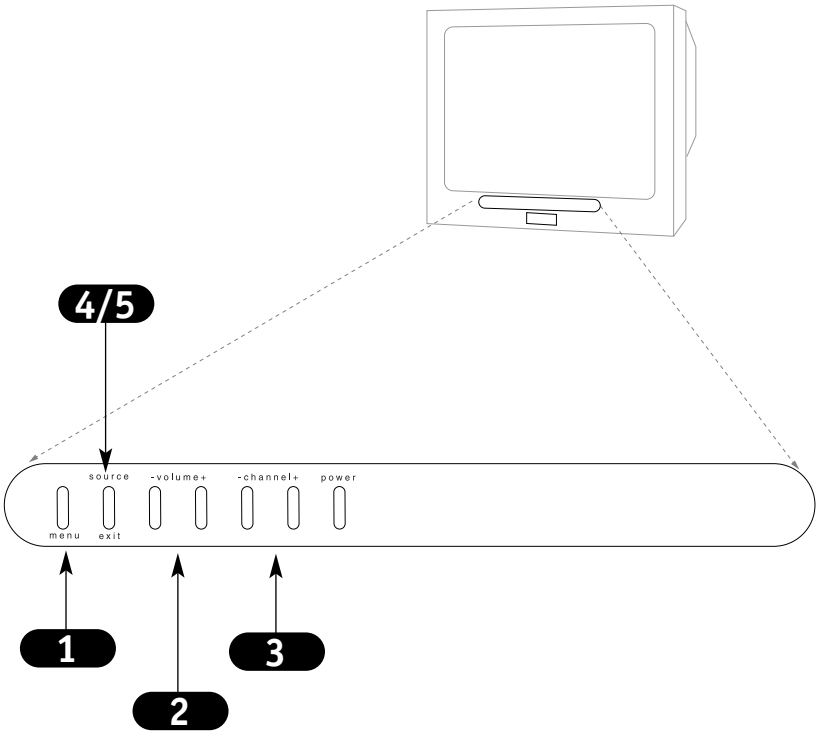
1 To access the menus, push the MENU button on the panel.

2 Use the VOLUME +/- buttons as the LEFT/RIGHT arrow buttons on your remote.

3 Use the CHANNEL +/- buttons as the UP/DOWN arrow buttons on your remote.

4 Push the EXIT button to return to normal TV viewing.

5 Press the SOURCE button to cycle through all sources.



Refer to the various pages on how to use the on-screen menus.

The CHANNEL and VOLUME buttons work just as they do on your remote control.

Auto Demo is activated by pressing the POWER button on the front panel and holding down on the button. To turn Auto Demo off, press the POWER button once.

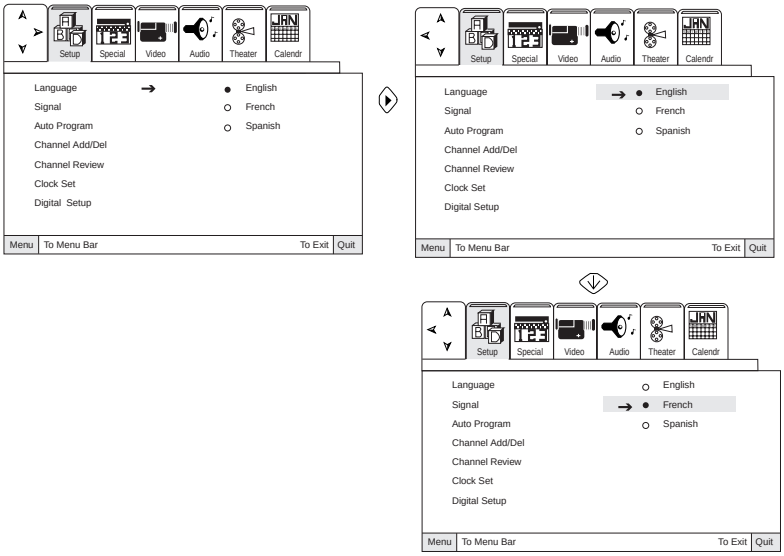
Using the Menu button on your remote you can access all the menus below.

Menu Name		Go to page
SETUP MENU	Adjust the basic characteristics of your Entertainment Machine.	
Language	Pick the language you want your on-screen menus to appear in.	22
Signal	Adjust the signal Source for your Ant 1 jack.	16
Auto Program	Automatically finds and stores active channels to flip through using Channel Up/Down.	16
Channel Add/Del	Manually pick and choose which active channels will appear when flipping through using Channel Up/Down	23
Channel Review	Review the labels and Parental Controls you have placed on your channels.	24
Clock Set	Set the Clock on your Entertainment Machine.	25
Digital Setup	Allows you to adjust the color convergence of your Entertainment Machine.	26
SPECIAL MENU	Go beyond basics and customize your Entertainment Machine's functions.	
Channel Labels	Label your channels with their network names (ABC, CBS, HBO, etc.).	27
Source ID	Customize the names of your sources by either selecting a label or making your own.	28
Favorite Channels	Choose your Favorite Channels according to their category Movies, Sports, Sitcoms, News, Music or Custom.	29
Parental Control	Allows parents to block any channel for up to 99 hours, with the use of a password.	30
Security Timer	Program up to four separate events for your Entertainment Machine to turn itself on or off, or to turn itself off after a certain amount of time.	32
Captions/Text	Choose the captioning or text method for your Entertainment Machine.	33
Background	Turns the background for on-screen menus transparent or opaque.	34

Menu Name (cont'd)		**Go to page**
VIDEO MENU	Adjust your picture for any viewing situation. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Reset and Advanced Settings: Light Sentry, Auto Flesh, Video Filter, Detail Enhance and Color Temperature.	35
AUDIO MENU	Customize the sound to suit your room and your taste. Your options are: Bass, Treble, Balance, Reset and Advanced Settings: Stereo, Mono, Second Audio Program, Internal Speakers Auto Noise Cancel, Loudness and SoundRite.	36
THEATER MENU	Select the right audio and video automatic settings that optimize TV's performance for TV, Movies, or Sporting Events	37
CALENDAR	View the calendar on your Entertainment Machine.	38
PIP OVERVIEW	Set the Picture-In-Picture settings for your Entertainment Machine.	39

Language Menu

Choose what language your on-screen menus appear in.



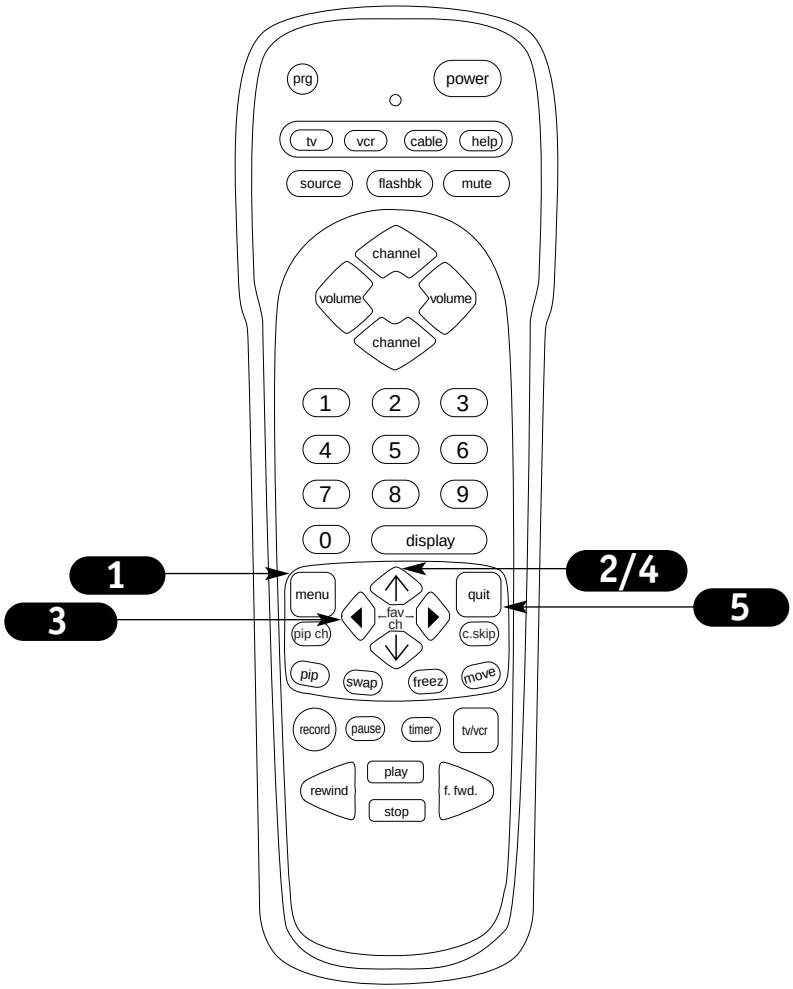
1 Press the Menu to access the on-screen Menu.

2 Press an UP/DOWN arrow to select Language.

3 Press a RIGHT/LEFT arrow button to activate Language menu item.

4 Press an UP/DOWN arrow button to select your Menu language preference.

5 Press QUIT to exit and save your choice.



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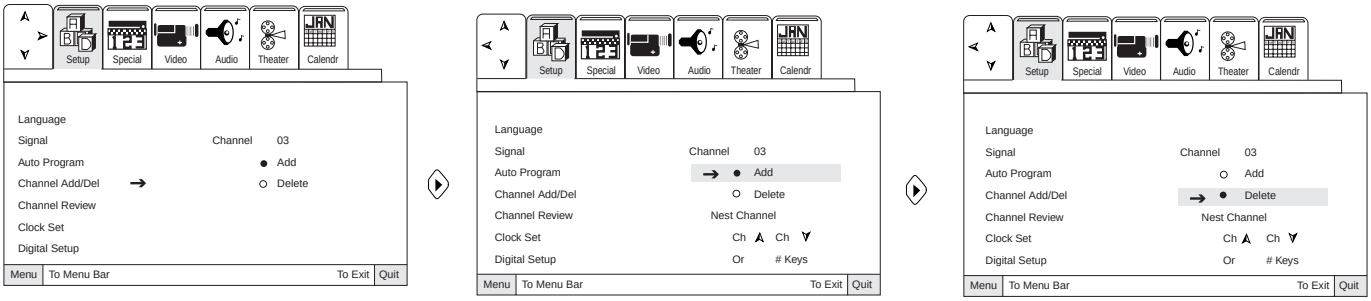
Channel Add/Delete



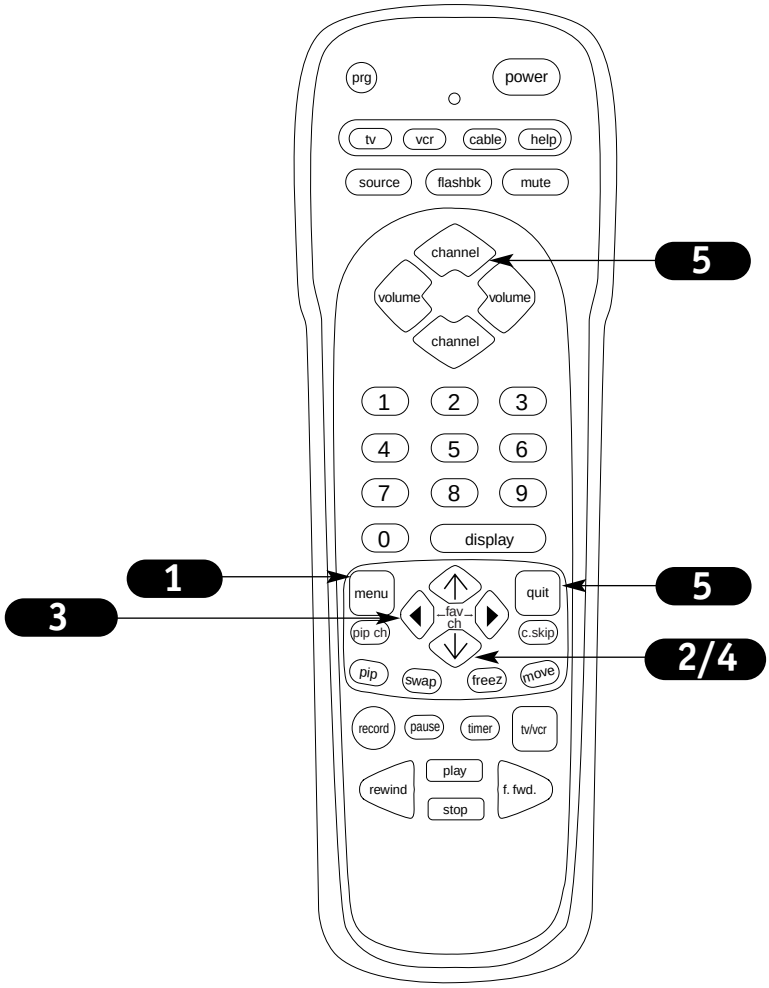
1 Press the Menu to access the on-screen Menu.

2 Press an UP/DOWN arrow to select Channel Add/Del.

3 Press a RIGHT/LEFT arrow button to activate Channel Add/Del menu item.

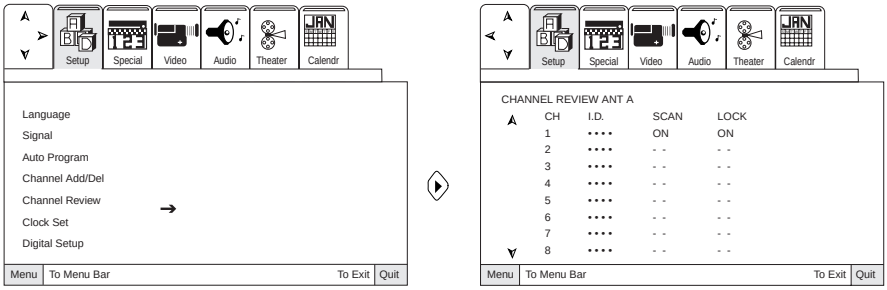
4 Press an UP/DOWN arrow button to Add or Delete the current channel.

5 Press QUIT to exit and save your choice or use the Channel UP/DOWN buttons to select another channel to Add or Delete and repeat steps four and five.



Channel Review

Review the channel settings on your Entertainment Machine.



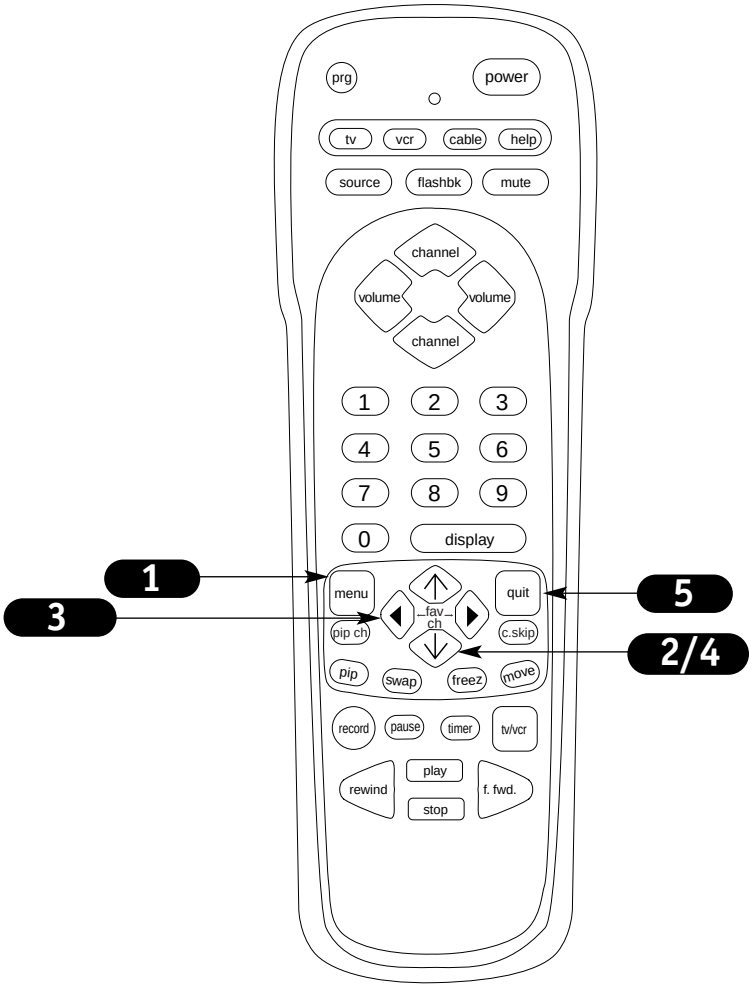
1 Press the Menu to access the on-screen Menu.

2 Press an UP/DOWN arrow to select Channel Review.

3 Press a RIGHT/LEFT arrow button to activate Channel Review menu item.

4 Press an UP/DOWN arrow button to cycle through your channel list.

5 Press QUIT to exit.



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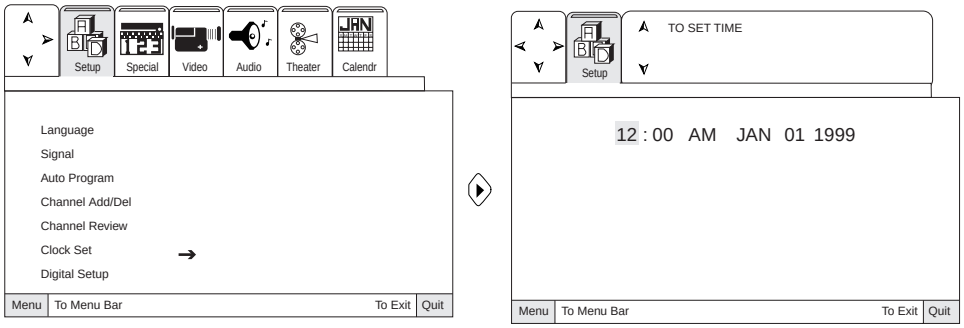
Clock Set

Set the clock on your Entertainment Machine.



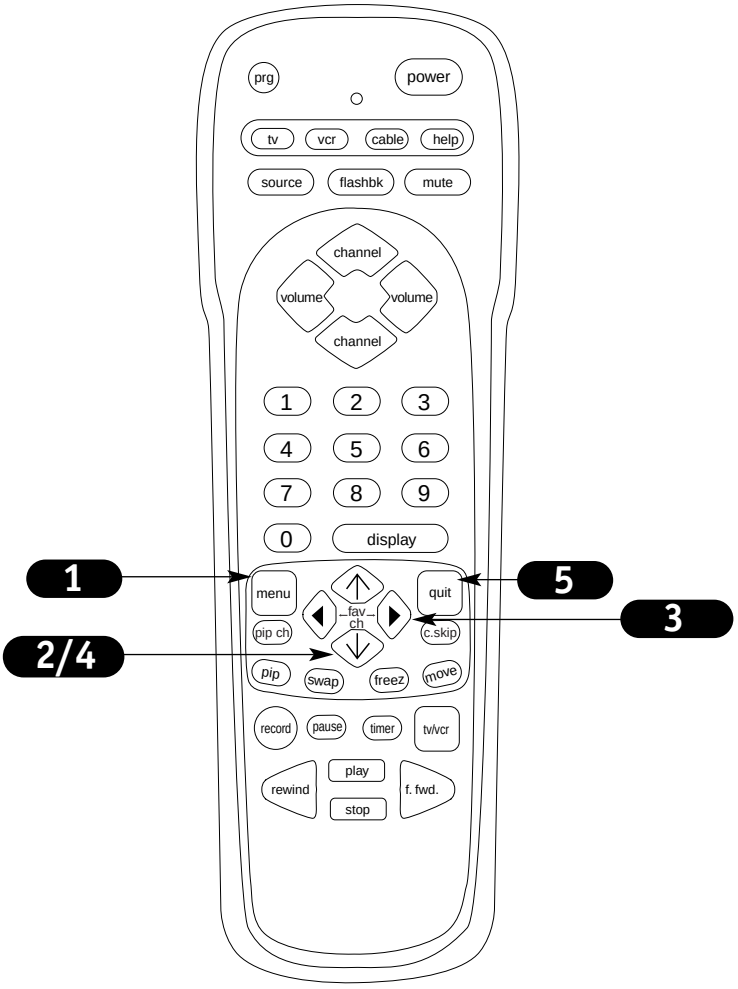
1 Press the Menu to access the on-screen Menu.

2 Press an UP/DOWN arrow to select Clock Set.

3 Press a RIGHT arrow button to set the clock on your Entertainment Machine.

4 Use the RIGHT/LEFT arrow button to select time and date options. Use the UP/DOWN arrow buttons to adjust time and and date options.

5 Press QUIT to save and exit.



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Digital Setup

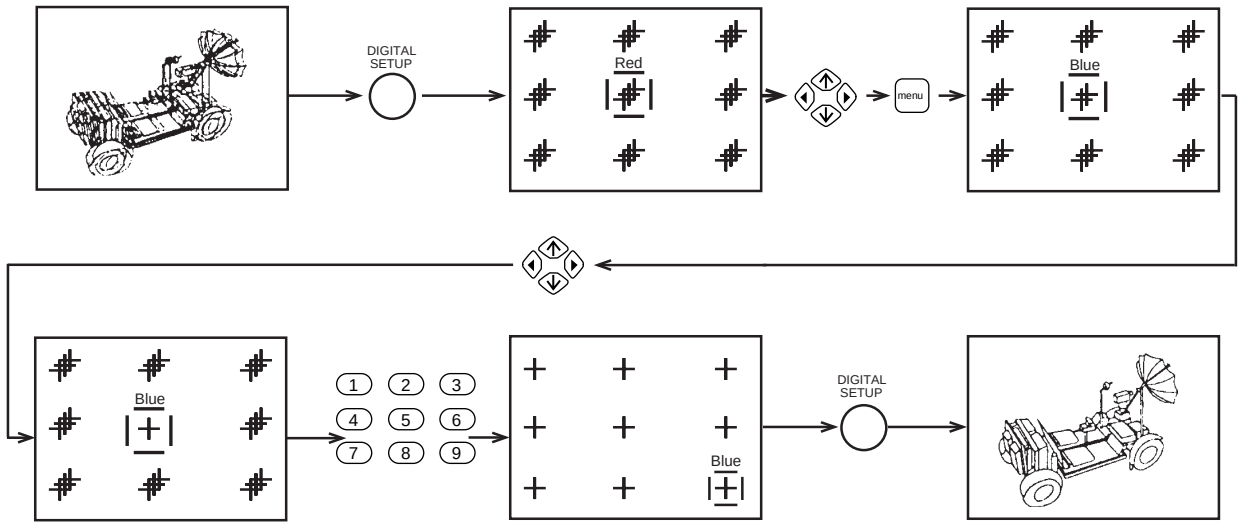
Your Zenith Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The process of aligning these picture beams is called “convergence”.

Over a period of time, the picture tubes can drift out of alignment due to normal bumps and vibrations or moving the TV. If you move your TV, or if, after a time, you notice color rings or halos around objects in the picture, you may want to converge (align) the colors.

Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.

To simplify convergence, Zenith incorporates a feature to allow you to display a test pattern of horizontal and vertical lines at 9 different locations on the screen. Simply use the remote control to adjust the red and blue colors to match the green. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.

To enter this adjustment mode press the front panel DIGITAL SETUP button.



Use the number buttons on the remote control to select which point to adjust: 1-Upper Left, 2- Upper Middle, 3 - Upper Right,4 - Center Left, 5 - Center, 6 - Center Right, 7 - Bottom Left, 8 - Bottom Middle, 9 - Bottom Right.

Press the ARROW buttons on the remote control to move the displayed color up, down, left, or right.

Press MENU on the remote control to change the color you want to adjust.

Press the front panel DIGITAL SETUP button or the remote control MOVE button when adjustment is done. This will save your adjustment into memory.

NOTE: Only a momentary press of the DIGITAL SETUP button is necessary to enter DIGITAL SETUP convergence adjustment mode.

Do not press the DIGITAL SETUP button for more than three seconds.

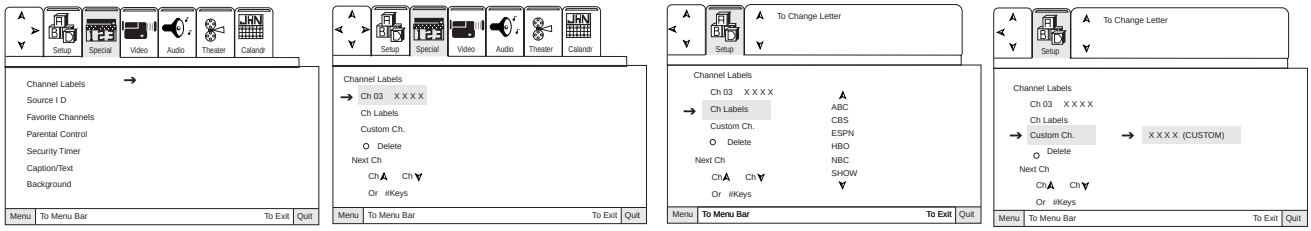
Four lines surrounding a crosshatch indicate the point being adjusted. The color of these surrounding lines indicates the color being adjusted.

To save your adjustment data into memory, press the front panel DIGITAL SETUP button or the remote control MOVE Button. If you do NOT wish to save your adjustment data into memory, turn the TV OFF or press the remote control PIP button. When the TV is turned ON again, your old convergence data will be restored.

When adjusting convergence, always start at the center of the screen.

To exit this function, press DIGITAL SETUP on the front panel of your Entertainment Machine.

Channel Labels



1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Channel Labels.

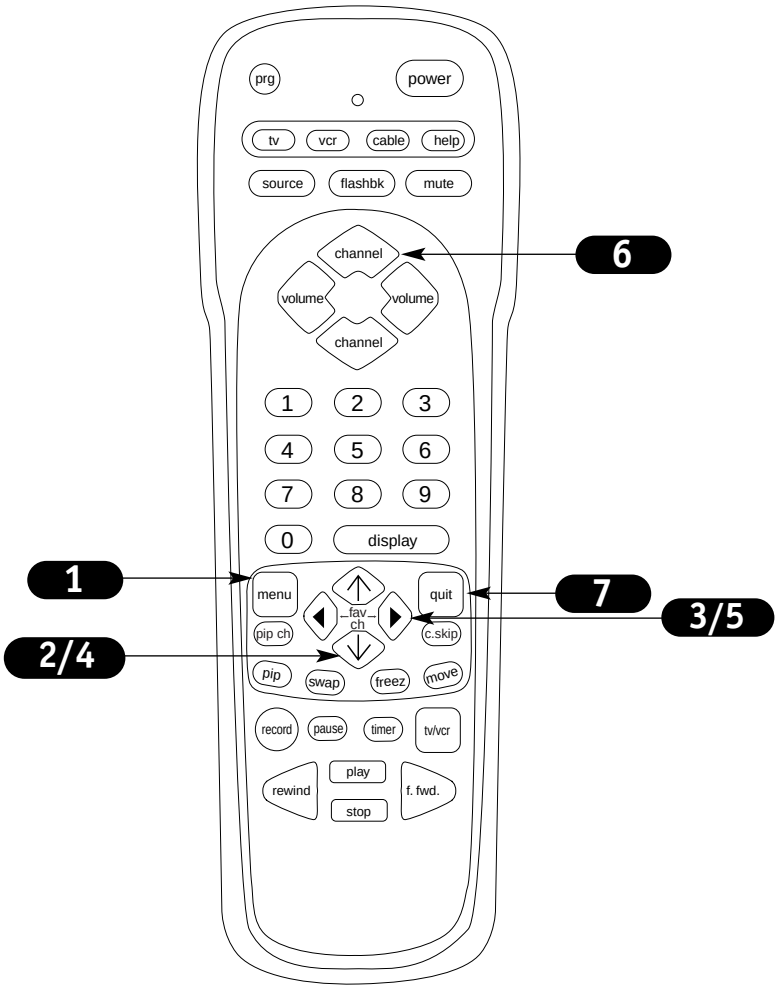
3 Press a RIGHT arrow button twice to activate the Channel Labels option.

4 Use the UP/DOWN arrow buttons to select a pre-set channel label (use the right arrow to access and UP/DOWN to scroll through the list) You may customize your channel label by selecting Custom Channel, or delete a channel label entirely by selecting Delete.

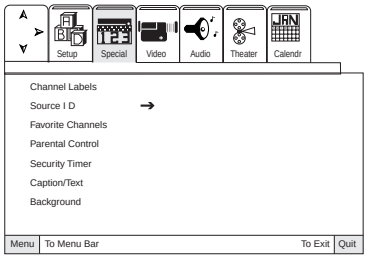
5 If you select custom channel, press the RIGHT arrow button twice and then use the UP/DOWN arrow buttons to select individual letters.

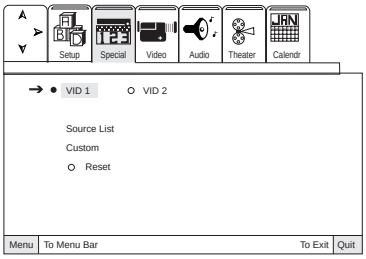
6 Use CHANNEL UP/DOWN buttons or the NUMBER KEYPAD and select another channel to label.

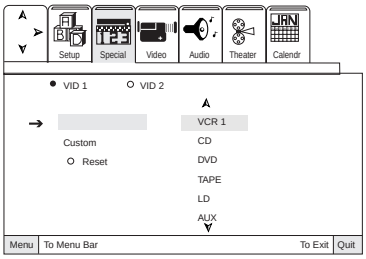
7 Press QUIT to save and exit.



Source ID







1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Source ID.

3 Press a RIGHT arrow button twice to activate the Source ID option.

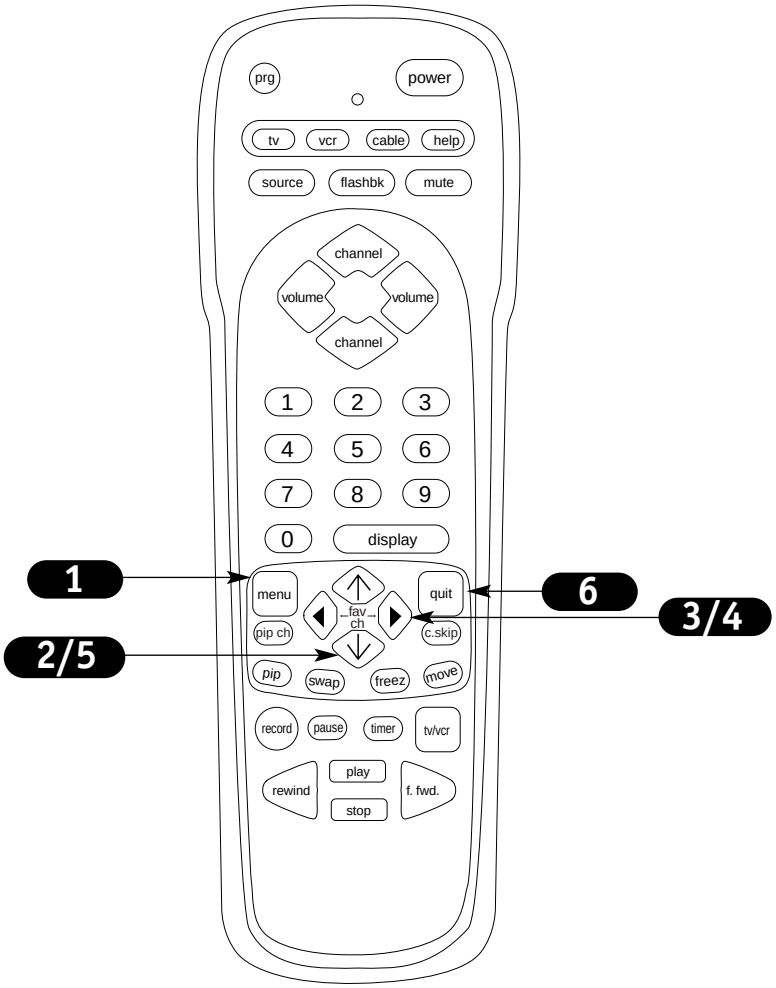
4 Use the RIGHT/LEFT arrow buttons to select a VID1 or VID2.

5 Use the UP/DOWN arrow buttons to select Source List to choose a pre-set Source ID, Custom to create your own label, or Reset to clear all labels.

6 If you select Source List, press the RIGHT arrow button access the list and then the UP/DOWN arrow buttons to select from the list. Press QUIT to save your choice.

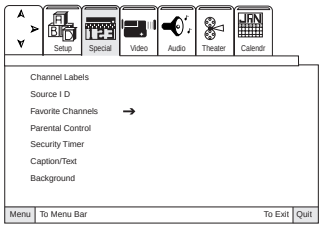
7 If you wish to customize your source ID, select Custom, then press the RIGHT arrow button. Cycle through the character choices using the UP/DOWN buttons and cycle through the character slots using the RIGHT arrow button. Press QUIT to save your choice and exit.

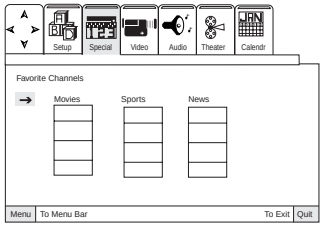
8 To reset your Source ID to their default labels (VID1 and VID2) select Reset and press a RIGHT arrow button. Press QUIT to save your choice and exit.

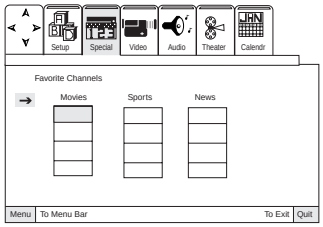


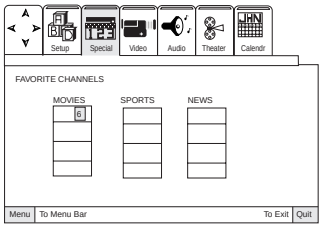
When you label VID1 and VID2 the TV set will automatically change to source of the last source labeled. To return to your original drawing source, press the source button on the remote repeatedly until you see the picture you were originally watching.

Favorite Channels









1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Favorite Channels. Press the RIGHT arrow button to activate Favorite Channels option.

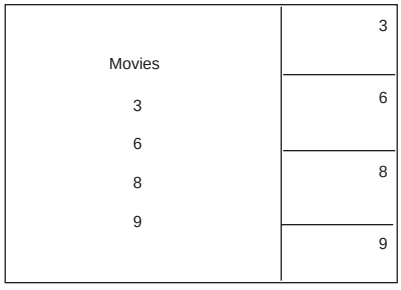
3 Use the RIGHT arrow button to select your Favorite Channels category such as Movies, Sports, News, Sitcom , Music or Custom.

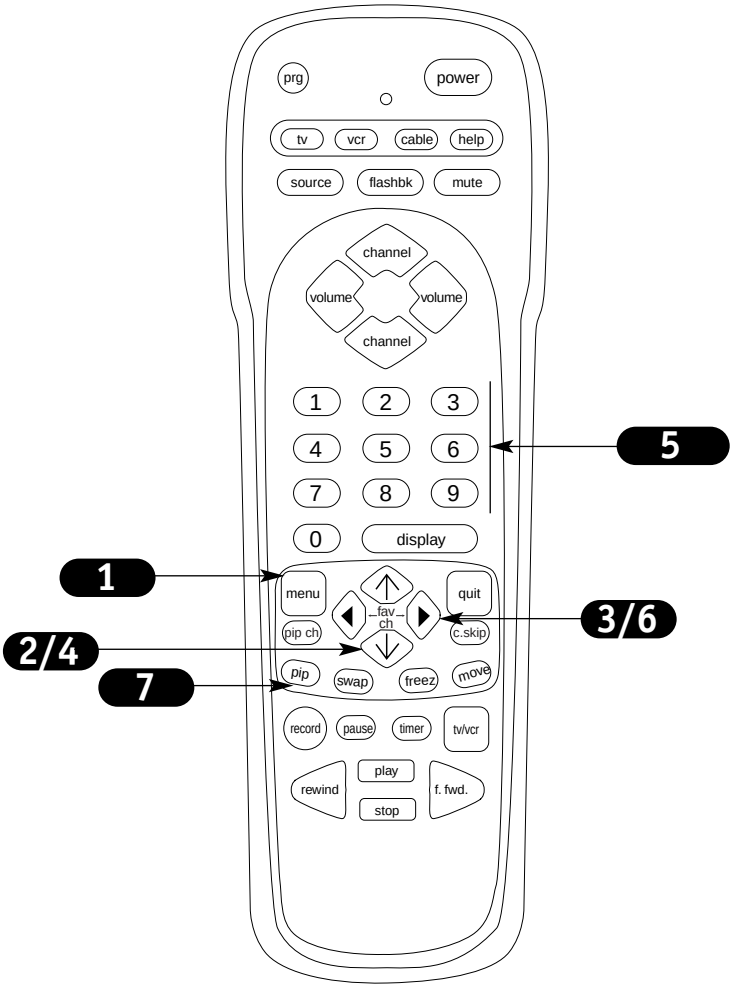
4 Once you have selected a category, press a DOWN arrow button to select a slot for your Favorite Channel of that category.

5 Use the NUMBER keypad to enter the channel you want for that category. Repeat these steps for all categories.

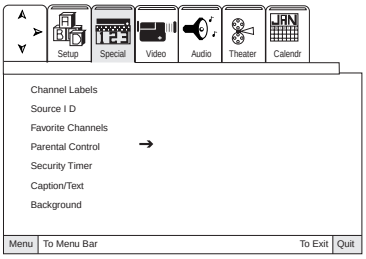
6 To access your favorite channels, simply use the LEFT/RIGHT arrow buttons while watching TV. Use the UP/DOWN arrow buttons to scroll through the choices you have set.

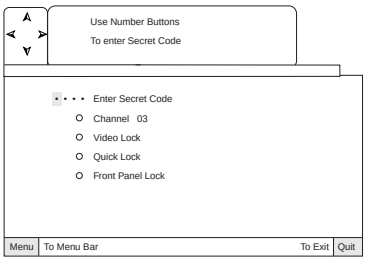
7 While in Favorite Channels Mode, press the menu button on your remote and after a short time you will see four PIP insets representing the four Favorite channels you have selected for that category to the right of your viewing area.

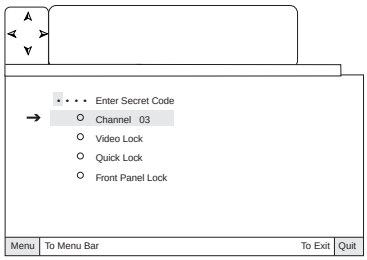




Parental control







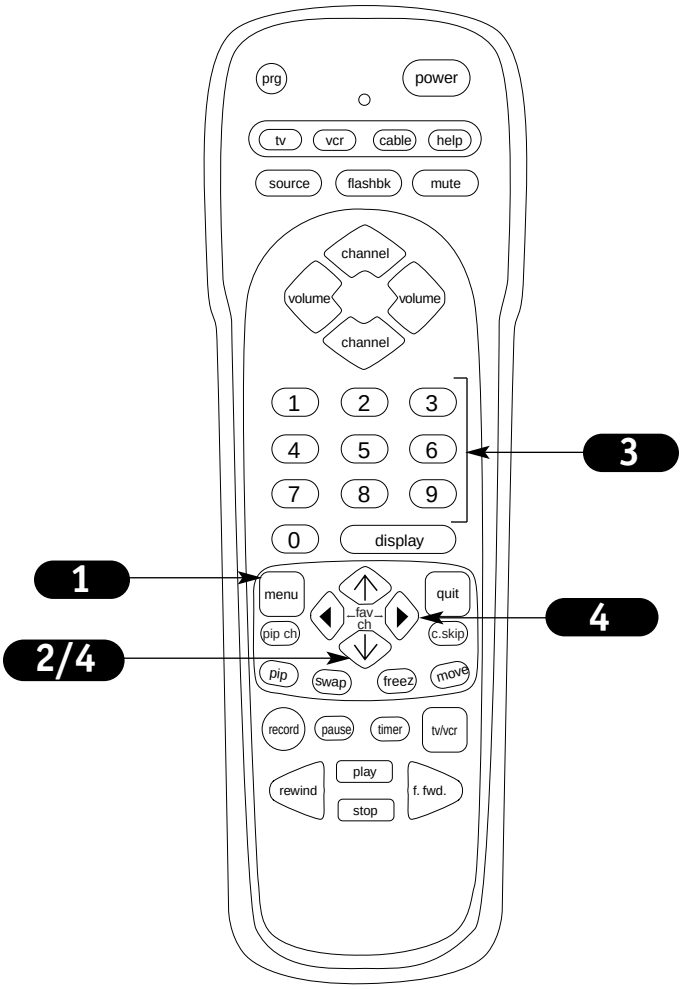
1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Parental Control and press the RIGHT arrow button to activate Parental Control.

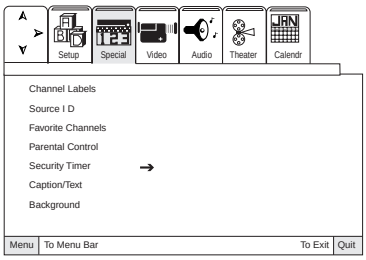
3 When prompted, enter the default code 7777 from the number keypad. If you wish to change the code, select "Change Secret Code" and enter the new code through the number keypad. If you forget your code, just re-enter "7777" to reset to factory preset code.

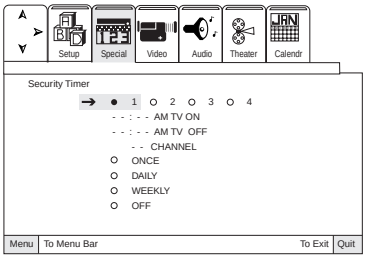
4 Now select Channel you wish to block, Video Lock to block your video inputs from the rear jack panel, Quick Lock to lock Channel 3/4 and video inputs, or Front panel lock to block TV control from the front panel controls.

In order to use Video lock, you must press the source button on the remote until you select VID 1 or VID 2 in order to lock these source. The same applies to unlocking the Video Lock.



Security Timer





1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Security Timer. Press the RIGHT arrow button to activate Security Timer option.

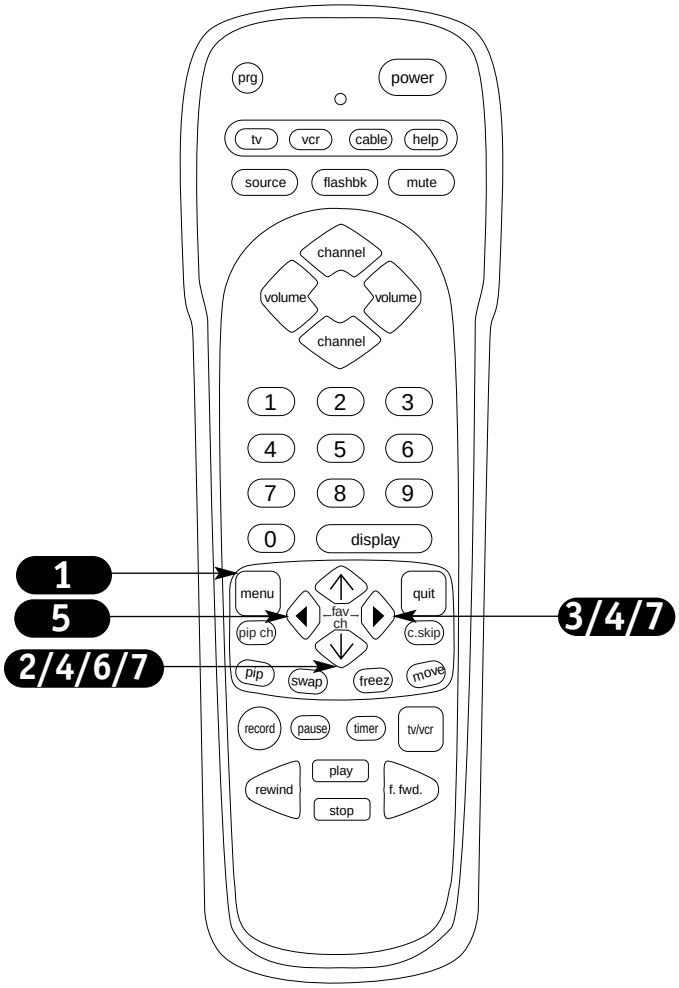
3 You may select up to four ON/OFF time settings for your TV. Use the RIGHT arrow button to select 1-4, then press the DOWN arrow button to select the TV on time.

4 Use the DOWN arrow button to set the hour and use the LEFT/RIGHT buttons to select minute and AM or PM.

5 Press the LEFT arrow button until the cursor appears to the left of the current line item.

6 Use the DOWN arrow button to select Channel. Set the channel for the TV to tune to by entering the channel through the number keypad.

7 Use the UP/DOWN arrow buttons to select Once, Daily, Weekly or Off. Use the RIGHT arrow button to set your selection.



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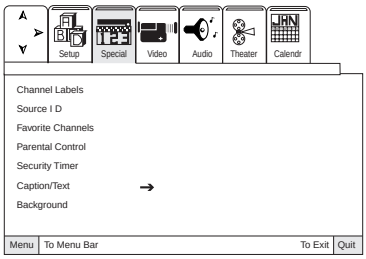
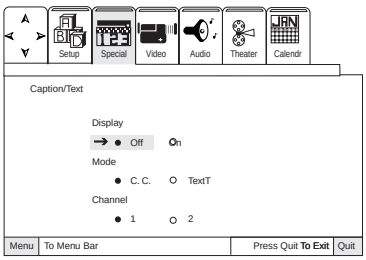
Caption/Text

Set the Caption/Text options for your Entertainment Machine.





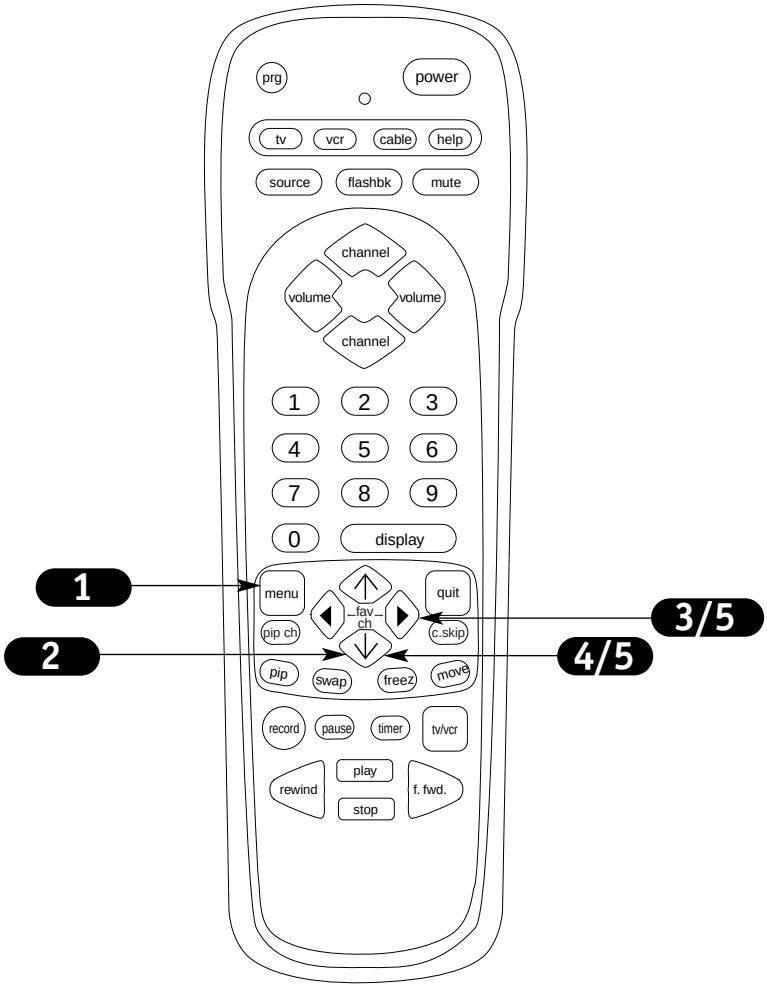
1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Caption/Text. Press the RIGHT arrow button to activate Caption/Text option.

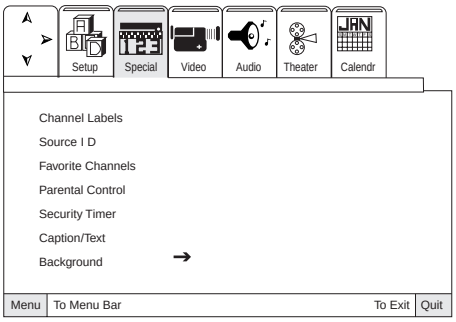
3 Select Display Off or On to turn on your caption or text selection. Press the RIGHT arrow button to turn Display On or Off.

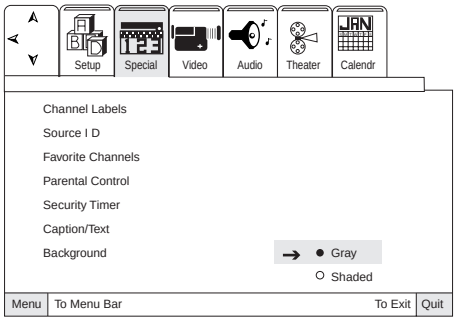
4 Press a DOWN arrow button to select the mode, C. C. for Closed Captions or Text for Text. Use the RIGHT arrow button to select.

5 Press a DOWN arrow button to select which channel Closed Captions or Text shall be set to. Usually this should be set to 1. Use the RIGHT arrow to select.



Background

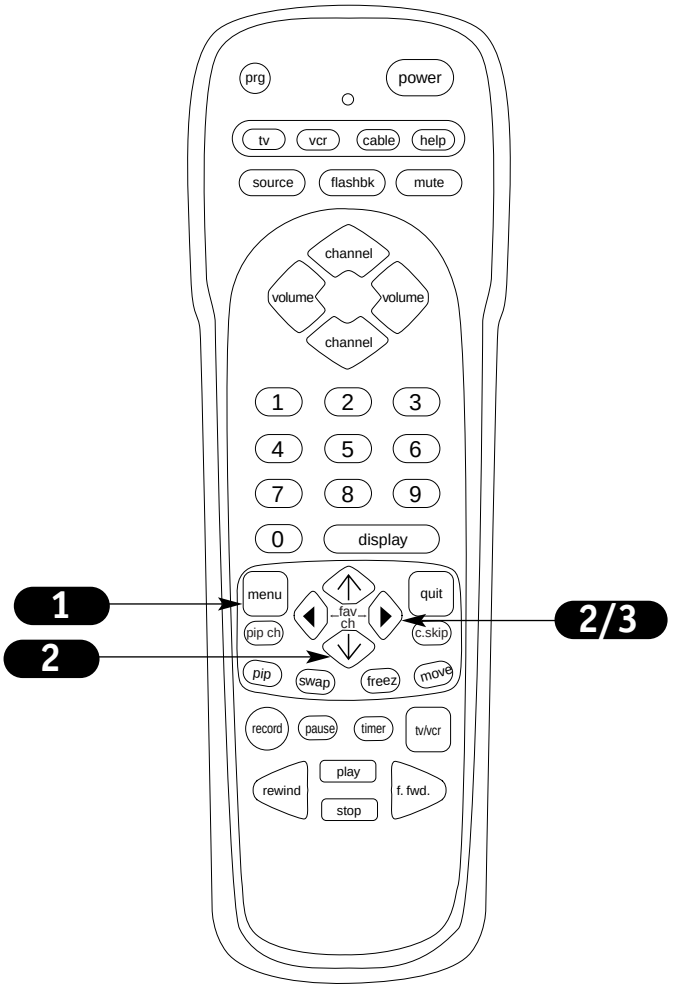




1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Background. Press the RIGHT arrow button to activate Background option.

3 Use the UP/DOWN arrow buttons to select Gray or Shaded.



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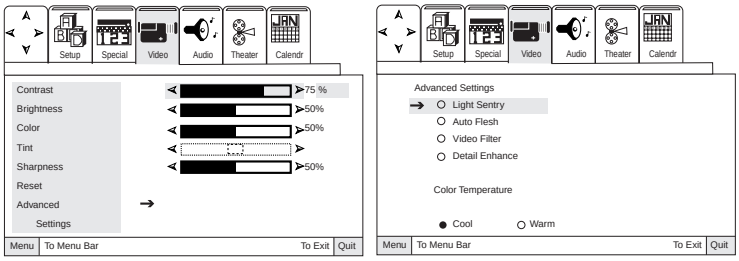
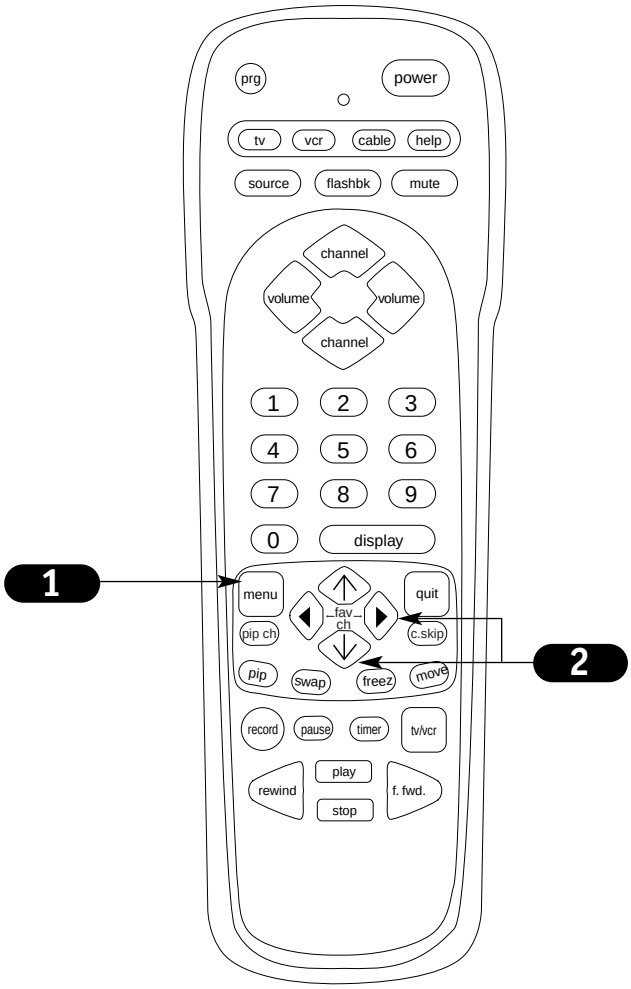
Video Menu



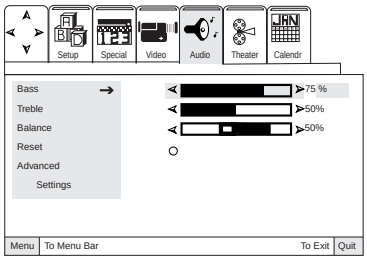
1 Press MENU and the RIGHT/LEFT arrow button to access the Video Menu.

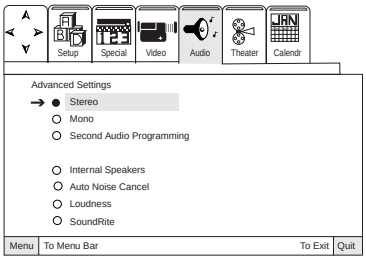
2 Press an UP/DOWN arrow to select one of the following options. Press the RIGHT arrow button to activate that option.

- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjust levels of all colors.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raise or lower the definition of the picture. The lower the level, the softer the image will appear.
- **Reset:** Reset restores the levels to their original settings.
- **Advanced Settings:** Activate advanced settings menu.
- **Light Sentry:** Automatically monitor and adjust contrast depending on room lighting to produce a more natural picture.
- **Auto Flesh:** Automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes.
- **Video Filter:** Automatically reduces conspicuous noise in the picture without degrading picture quality.
- **Detail Enhance:** Improves picture detail in areas of high brightness.
- **Color Temperature:** Set this to Warm for hotter colors such as red, or set to cool for less intense colors with more blue.



Audio Menu





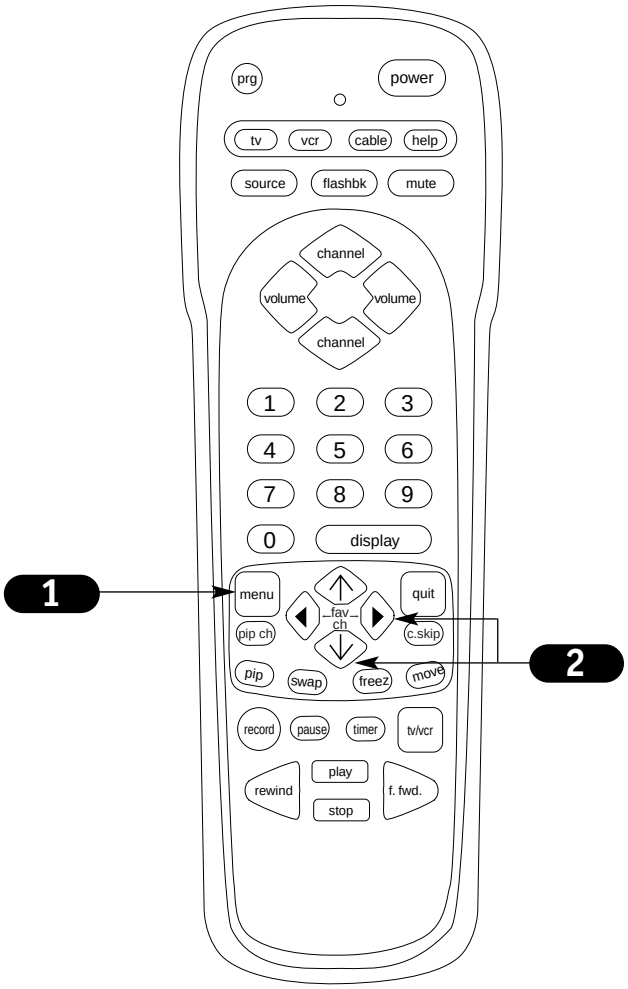
1 Press MENU and the RIGHT/LEFT arrow button to access the Video Menu.

2 Press an UP/DOWN arrow to select one of the following options. Press the RIGHT arrow button to activate that option.

- **Bass:** Increase/decrease lower-end sounds.
- **Treble:** Increase/decrease higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.
- **Reset:** Reset your audio options to their default settings.
- **Advanced Settings:** Set advanced setting on your TV.
- **Stereo:** Activate stereo sound.
- **Mono:** Activate mono sound.
- **Second Audio Programming:** Activates separate audio channel available with some programming.
- **Internal Speakers:** This function is useful when first setting up external speakers, or if you prefer to use only speakers from a separate stereo system.
- **Auto Noise Cancel:** This function eliminates the noise between stations.
- **Loudness:** This function will improve the quality of both low and high frequency sounds when listening at low volume levels.
- **Soundrite:** This function will automatically adjust volume so each channel has the same average volume level

Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.

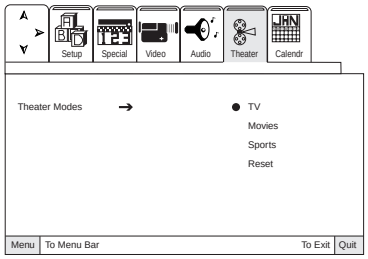
Programming that doesn't broadcast SAP may be silent when you set your Entertainment Machine on this setting.

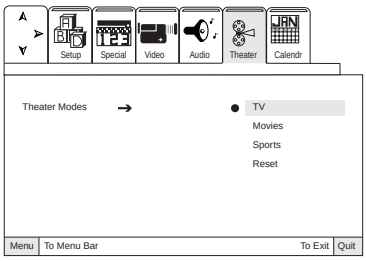


Mini glossary

STEREO SOUND	Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.
2ND AUDIO/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

Theater Modes

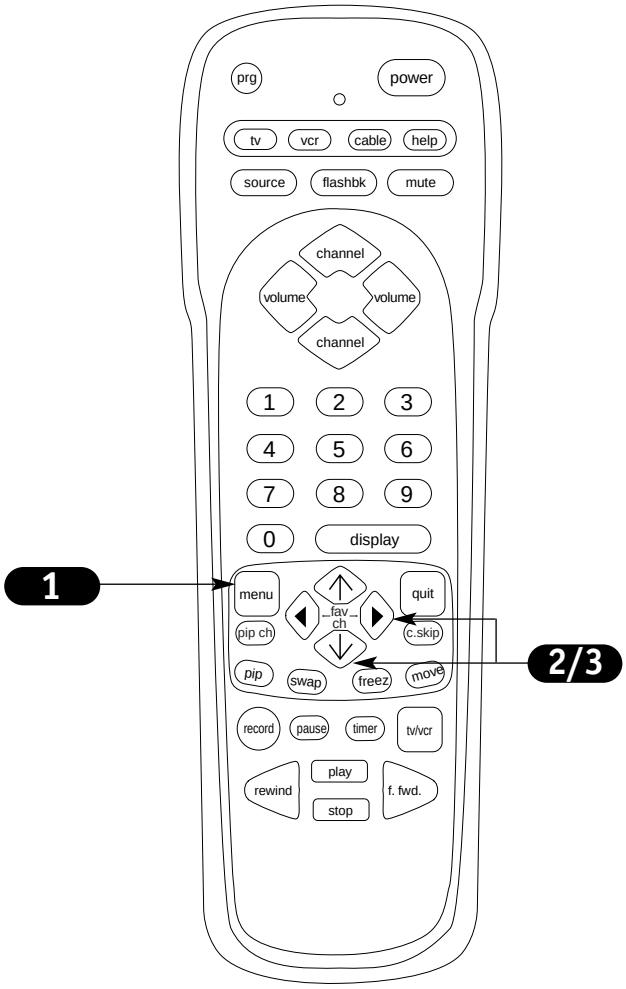




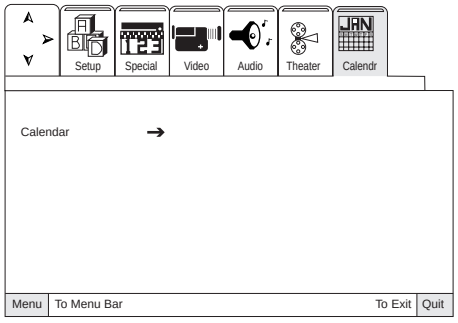
1 Press MENU and then the RIGHT/LEFT arrow button to access the Theater modes.

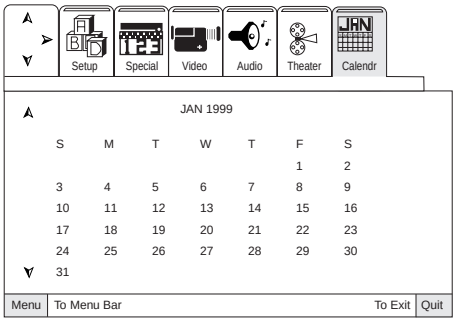
2 Press DOWN arrow button to access the Theater modes.

3 Press RIGHT arrow to select the Theater Modes which you prefer. Each is a preset Audio Video configuration which enhances your viewing pleasure. Press the UP/DOWN arrow button to activate that option.



Calendar

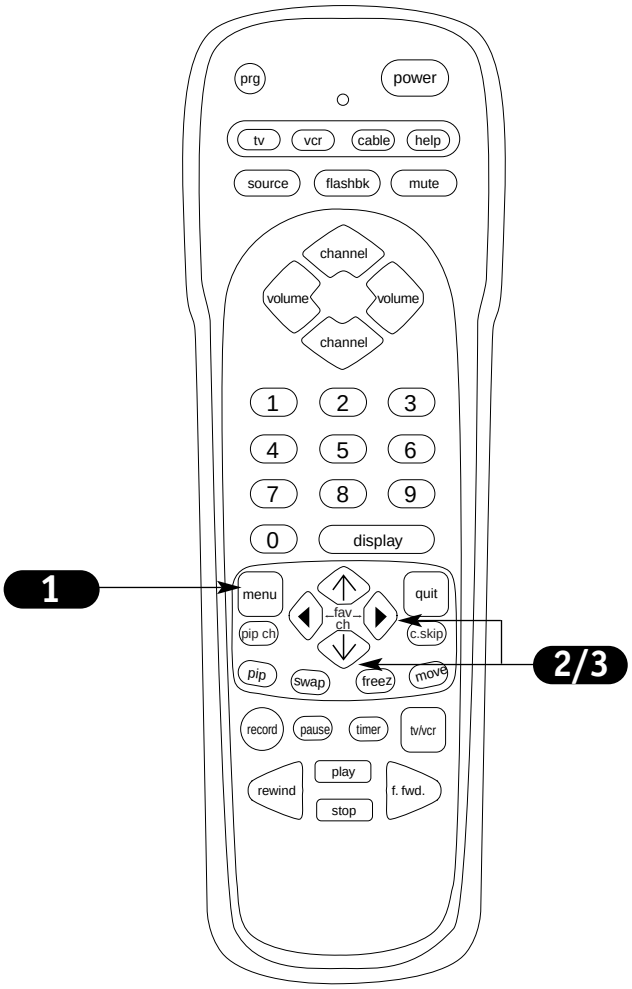




1 Press MENU and then LEFT/RIGHT arrow button to select calendar.

2 Press DOWN button and then the RIGHT button to access Calendar to view it.

3 Press an UP/DOWN arrow to select Calendar.



206-3487-0

YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture. Don't want to miss any of the big game, but hate commercials? Just put the game in the inset, and surf with the main picture.

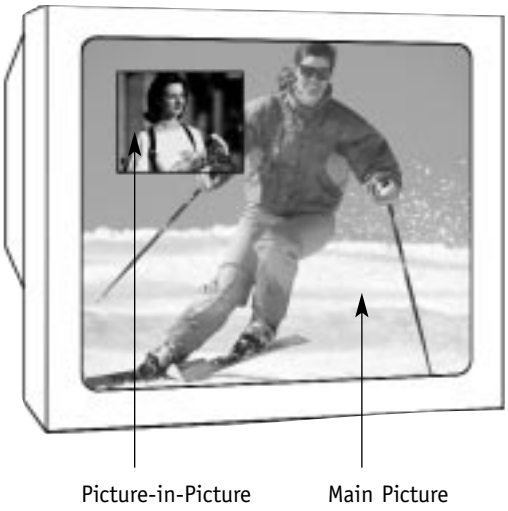
2-TUNER PIP FEATURE

Normally, you would need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. Your Entertainment Machine eliminates that need by giving you two tuners in one TV. PIP is always available, no matter what equipment you have.

WORKING WITH PIP

This is where your MBR remote is put to the most use. All of the functions PIP has are accessible through the menus that pop up on-screen when you use your remote. There's more about that on the following page.

Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. When you set the main screen source to Antenna/Cable 1 or 2, the PIP source will automatically set to that as well. You can adjust and/or request a different source through the Source selection on your remote.



POSSIBLE REASONS FOR ADJUSTING PIP SOURCE

1. You use a cable box to receive premium channels, and have it "looped out" on the back of the TV. Set the PIP source to the cable box source, and the Inset will display the premium channels, which can then be swapped with the main picture.

2. You want to watch a video tape, but keep scanning for another movie or game. Set the PIP source to VIDEO 1, or 2 and you can watch the VCR and TV, swapping between the two.

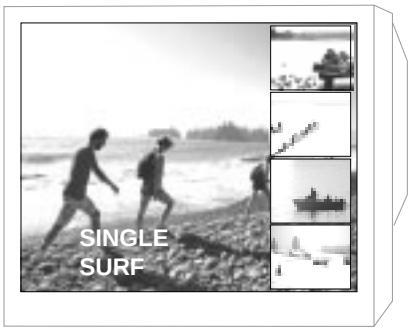
PIP Functions

SINGLE MODE PIP

1 Press the PIP button on your remote to activate the PIP display appears in one corner of the screen. Press PIP again to reduce the size of the picture. Press PIP again to remove the display from the screen.

2 Use PIP Ch button on your remote to select between main picture and PIP display tuning control.

3 Press the SOURCE button on your remote when PIP display is active to change PIP source from VID1, VID2 and ANT 1 antenna source.

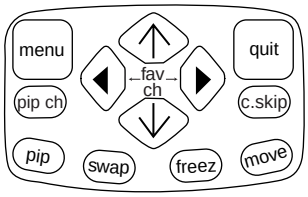


SURF MODE PIP

1 Press the PIP button on your remote and then press the DOWN arrow button to select Surf on your display. Press PIP to get out of PIP and reset to Surf. Press PIP again to see four PIP insets. Surf will scan all active channel numbers and display them as PIP displays.

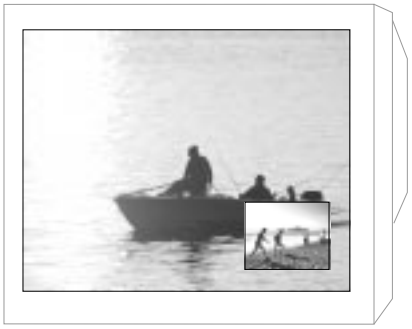
2 Press PIP again to remove PIP displays from screen.

PIP Functions



PIP SWAP

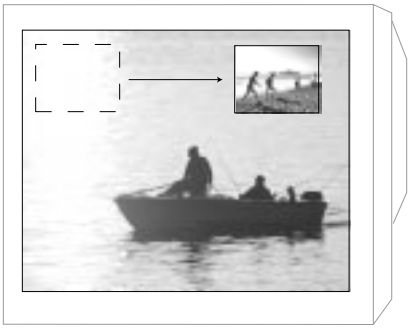
1 Press the SWAP button on your remote to switch between the PIP display and the main picture. (SWAP only operates when PIP is in Single Mode.)



PIP MOVE

1 Press the MOVE button on your remote to move the PIP display from corner to corner of your screen.

2 If you wish to move the PIP display to another part of your screen other than the corners, simply activate the PIP display, wait about eight seconds and then move the PIP display with the UP/DOWN and LEFT/RIGHT arrow buttons on your remote.



PIP FREEZE

1 With PIP displayed, press the FREEZ button on your remote to freeze the PIP display.

2 Pressing FREEZ with PIP off will automatically bring up a PIP display with the Main Picture screen frozen at that point. You will also have the option to select “Single” or “Strobe” as a Freeze option. Press FREEZ to return to normal TV viewing.

3 Select “Strobe” as a Freeze option by pressing the DOWN arrow button on your remote. Press PIP to get out of PIP and reset to Strobe. Press FREEZ again to see four PIP displays appear with four frames of the display separated by 1/10 of a second in time. this feature is useful for viewing a moving picture that has many details, for example, a close play in a sport event or a golf swing.

Programming the Remote

Program your remote to work with a VCR or Cable Box.

1 The device you want to program should be ON.

2 On the chart in this manual, find the type of device you're programming and then find the brand name. Make a note of the two-digit code—you'll need it soon.

3 Press and hold the PRG key. It's recessed so it doesn't get pushed accidentally. When the indicator light turns on, you can release the button.

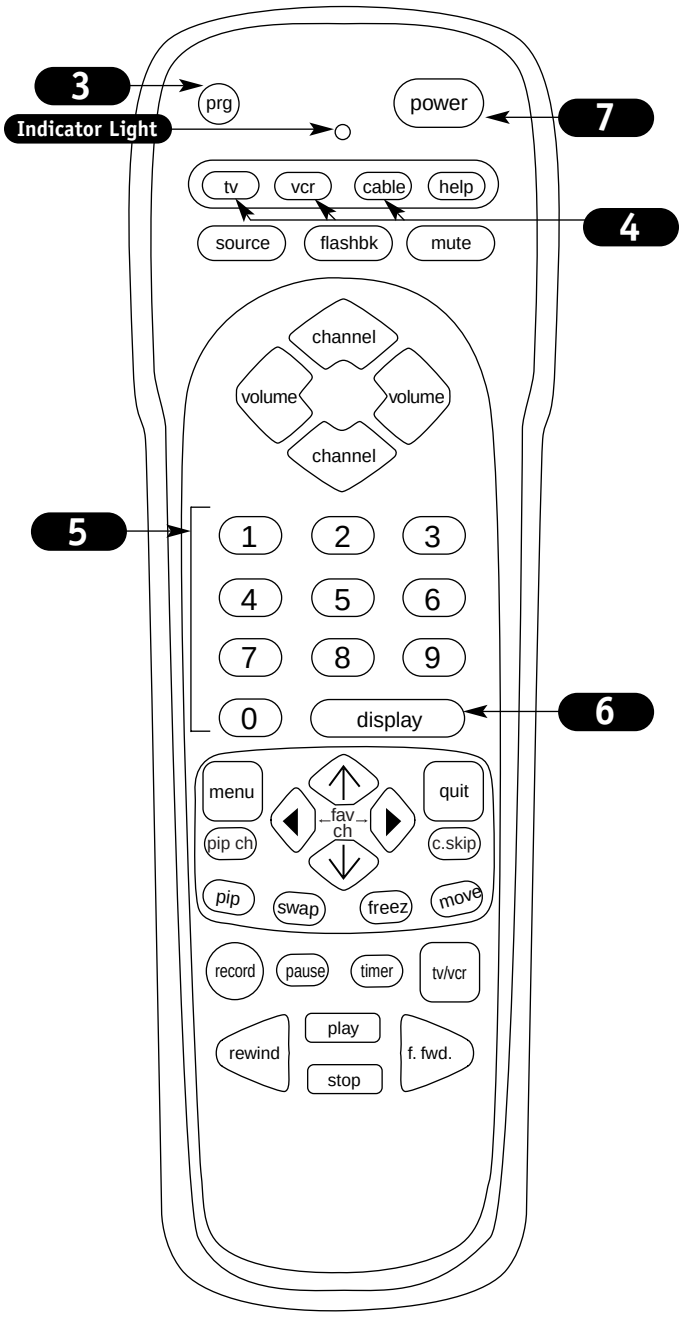
4 Push the button with the name of the device you're programming (VCR or CABLE).

5 Using the number pad, enter the two digit code found on the chart in the Reference section.

6 Press DISPLAY to save the code The indicator light will flash three times and turn off if the code was accepted.

7 Aim the remote at the device and push the POWER button. It should turn off. If not, try the other codes listed and continue from step three.

Not all devices will work with your Zenith remote control.



Programming Codes

VCRs

Adventura 00
Aiko 08
Aiwa 00
Akai 01, 48, 49
American High . . . 22
Asha 45
Audiovox 23
Beaumark 45
Bell & Howell 32
Brandt 43
Broksonic 33, 34, 42, 51, 52
Calix 23
Canon 22
Capehart 06
Carver 31
CCE 08, 30
Citizen 08, 23
Colt 30
Craig 18, 23, 30, 45
Curtis Mathes . . . 01, 22, 47
Cybernex 45
Daewoo 06, 08, 16, 38, 50
Daytron 06
Dynatech 00
Electrohome 23
Electrophonic 23
Emerx 07
Emerson 200, 08, 12, 15, 23, 27, 28, 33, 34, 37, 42, 48, 51, 52
Fisher 18, 20, 32, 46
Fuji 09, 22
Funai 00
Garrad 00
General Electric . . 03, 22, 41, 47
Goldstar 23, 24, 44
Gradiente 00
Harley Davidson . . 00
Harman/Kardon . . . 24
Harwood 30
Headquarter 17
Hi-Q 18
Hitachi 01, 02, 03, 04
Jensen 01
JVC 01, 13, 26
KEC 08, 23
Kenwood 01, 24, 26
KLH 30
Kodak 22, 23
Lloyd 00
Lloyd's 27
Logik 30
LXI 23
Magnavox 14, 2, 29, 31, 35
Magin 45
Marantz 22, 3
Marta 23
Matsushita 22
MEI 22
Memorex 00, 14, 17, 18, 19, 22, 23, 32, 45
MGA 15, 48
MGN Tech 45
Minolta 02, 04
Mitsubishi 15, 26, 40, 48, 49
Motorola 19, 22
MTC 00, 45
Multitech 00, 30
NEC 01, 05, 24, 26, 32
Nikko 23
Noblex 45
Olympus 11, 22
Optimus 19, 23, 32
Orion 51
Panasonic 10, 11, 22, 39, 53
Penny 02, 05, 22, 23, 24, 45, 46
Pentax 02, 03, 04
Philco 22
Philips 22, 29, 31
Pilot 23
Pioneer 26
Portland 06
Protec 30
Pulsar 14
Quarter 17
Quartz 17
Quasar 22
Radio Shack 00, 23
Radix 23
Randex 23
RCA 02, 03, 04, 35, 41, 47
Realistic 00, 17, 18, 19, 20, 22, 23, 32, 45
Ricoh 21
Runco 14
Samsung 16, 45
Sanky 14, 19
Sansui 01, 26
Sanyo 17, 18, 32, 45
Scott 15, 16, 33, 34, 37, 42
Sears 02, 04, 17, 18, 20, 22, 23, 32, 46
Sharp 19
Shintom 30
Shogun 45
Shinger 30
Sony 07, 09, 21, 22
STS 02
Sylvania 00, 15, 22, 29, 31
Symphonic 00
Tatung 01
Teac 00, 01
Technics 22, 39
Teknika 00, 22, 23
Telefunken 43
THK 43
Toshiba 15, 16, 20, 37
Totevision 23, 45
Unitech 45
Vector 16
Vector Research . . 05, 24
Video Concepts . . . 05, 16, 48
Videosonic 45
Wards 00, 02, 18, 19, 22, 30, 35, 37, 45, 47
XR 1000 . . . . . 00, 22, 30
Yamaha 24
Zenith 09, 14, 21, 54

Cable Satellite

ABC 00, 07, 08, 18, 19, 21, 37, 38, 53
Antronix 40
Archer 12, 25, 40
Belcor 33
Cable Star 33
Century 12
Citizen 12
colour Voice 31, 45
Contronics 26, 29
Contec 22
Dae Ryung 21
Eastern 15
electricord 32
Everquest 56
Focus 57
Garrard 12
GC Electronics 33, 40
Gemini 04, 39, 44, 56
Goldstar 11, 26
General Instrument 00, 13
Hamlin 03, 09, 14, 23, 24
Hitachi 00
Hytex 37
Jasco 12
Jerrold 00, 08, 13, 38, 53, 55, 56
Macom 36
Magnavox 16
Memorex 02
Movie Time 30, 32, 34
NSC 30, 34, 39
Oak 22, 37, 50
Panasonic 02, 10, 49
Paragon 02
Philips 12, 16, 17, 27, 31, 43, 44, 45, 47
Pioneer 06, 11, 20
Popular Mechanics . 57
Pulsar 02
RCA 49
Realistic 49
Recoton 57
Regal 03, 09, 23, 35
Regency 15
Rembrandt 00, 39
Runco 02
Samsung 11, 26
Scientific Atlanta 18, 21, 42, 48
Signal 26, 56
Signature 00
SL Marx 26
Sprucer 01, 49
Starcom 38, 53, 56
Stargate 26, 56
Starquest 56
Starsight 58, 59
Sylvania 19
Teleview 26
Texscan 19
Tocom 07, 28, 55
Toshiba 02
Tusa 56
TV 86 30
Unika 12, 40
United Artists 37
United Cable 34453
Universal 12, 25, 32, 33, 35, 40
Videoway 51
Viewstar 16, 29, 30, 41
Zenith 16, 29, 30, 41, 64
Zentek 57
Hitachi (SAT) 61
RCA (SAT) 62
Sony (SAT) 63

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Zenith Remote Button Functions

KEY NAME	TV Mode	VCR Mode	Cable Mode
POWER	TV On/Off	VCR On/Off	Cable Box On/Off
CABLE	Selects Cable	Selects Cable	Selects Cable
VCR	Selects VCR	Selects VCR	Selects VCR
TV	Selects TV	Selects TV	Selects TV
FLASHBK	TV Flashback	VCR Flashback	Cable Flashback
MUTE	TV Mute	TV Mute	TV Mute
CHANNEL UP	TV Channel Up	VCR Channel Up	Cable Channel Up
CHANNEL DN	TV Channel Dn	VCR Channel Dn	Cable Channel Dn
VOLUME (RIGHT)	TV Volume Up	TV Volume Up	TV Volume Up
VOLUME (LEFT)	TV Volume Dn	TV Volume Dn	TV Volume Dn
1	TV Digit 1	VCR Digit 1	Cable Digit 1
2	TV Digit 2	VCR Digit 2	Cable Digit 2
3	TV Digit 3	VCR Digit 3	Cable Digit 3
4	TV Digit 4	VCR Digit 4	Cable Digit 4
5	TV Digit 5	VCR Digit 5	Cable Digit 5
6	TV Digit 6	VCR Digit 6	Cable Digit 6
7	TV Digit 7	VCR Digit 7	Cable Digit 7
8	TV Digit 8	VCR Digit 8	Cable Digit 8
9	TV Digit 9	VCR Digit 9	Cable Digit 9
0	TV Digit 0	VCR Digit 0	Cable Digit 0
ENTER	TV Enter	VCR Enter	Cable Enter
MENU	TV Menu	VCR Menu	Cable Menu
UP ARROW	TV Select Up	VCR Select Up	Cable Up Arrow
DOWN ARROW	TV Select Dn	VCR Select Dn	Cable Dn Arrow
LEFT ARROW	TV Adjust Left	VCR Adjust Left	Cable Left Arrow
RIGHT ARROW	TV Adjust Right	VCR Adjust Right	Cable Right Arrow
QUIT/	TV Seq Sound	VCR Quit	Cable Quitr
A	TV PIP	VCR+	Day Up
B	TV PIP Swap	VCR Channel Map	Day Down
C	TV PIP Freeze	VCR Search	Cable Pg Up
CC	TV Closed Captions	VCR Memory	Cable Pg Down
TIMER	TV Timer	VCR Timer	Cable Timer
TV/VCR/SOURCE	TV Sources	TV Tuner or VCR Tuner	Cable Info
RECORD	VCR Record	VCR Record	Cable Buy
PAUSE	VCR Pause	VCR Pause	Cable Guide
REWIND	VCR Rewind	VCR Rewind	VCR Rewind
PLAY	VCR Play	VCR Play	VCR Play
STOP	VCR Stop	VCR Stop	VCR Stop
FFWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward

References: 124-212-37 and µP 221-952-02A

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

SCREEN CLEANING

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

CABINET CLEANING

1. Use a soft cloth with a mild soap solution to wipe the cabinet .
2. Rinse the cloth and wipe the cabinet again.
3. Let the cabinet air-dry before turning the Entertainment Machine on.

WOOD CABINETS

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

EXTENDED ABSENCE

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your Entertainment Machine before leaving.

PICTURE INTERFERENCE

Even though you may be getting cable, the signal may be weak, which means the quality of your picture may suffer due to other factors. If there are problems with the image on your Entertainment Machine, consult the Troubleshooting guide on the following pages.

VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your Entertainment Machine to play video games or for other uses that have single, fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high. If static images, like network identification patterns, are left sitting for too long, they can leave a permanent impression on the picture tube. You can reduce the chance of this happening by limiting the amount of time you use the fixed-image display, and by reducing the contrast and brightness levels.

If you unplug your Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOMS	SOLUTIONS
Snowy picture and unclear sound.	• Check your antenna connection or location. • Check your cable input. • Check to see if the TV/VCR button on your VCR has the TV selected.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Check your cable input. • Make sure the cable from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and unclear sound.	*The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment.* • If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume levels. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine. • Are the Audio A/V cables properly installed? • Are the wires for external speakers (if you have external speakers) properly installed? • Make sure your speakers turned on under the Audio menu. • If your audio mode is set to SAP, that channel may not have a SAP program.
No picture and unclear sound.	• Press source button on your remote and make sure you have selected the right source you want to watch. • Are you in TV or cable tuning mode, and should be in the other? • Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound.	• Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	• The CC (closed caption) option may be in Text mode. Select Caption 1, or OFF in the Captions/Text menu.
Picture has two horizontal black bars, one on top and one on bottom.	• Your program is in letter box. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars.

Not able to add a 3 digit channel number.	• Press the 1st digit of your channel number, wait until 2 dashes appear to the right of your number than add the other two digits.
Not able to lock video lock feature in parental control.	• Exit out of Parental Control menu. Press the source button on your remote and change the source to Video 1. Then you can reenter the parental control menu and lock the video lock. You must do this same process to unlock the video lock.
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly.
Menu options can't be changed or selected.	• Try unplugging your Entertainment Machine for a few minutes, then plug it back in.
No picture or sound when any non-cable source is selected.	• Check to see if the source equipment has been turned on. • Make sure that the connections are secure on the back of your Entertainment Machine and on the source equipment.
Weak or no Stereo Sound when using a stereo VCR.	• Check to see if all the connections are secure. • Look in the Audio mode menu to see if all the settings are correct. • You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision.
The PIP inset is black or lacks contrast.	• You might want to adjust the PIP picture settings under the PIP menu. • Check that all the wires are connected properly. • Check to see if your input source for PIP is set correctly.
The PIP inset is "snow" when the source is Ant/Cable 1.	• Look to see if the TV/VCR button on your VCR has the TV selected.
Time is incorrect.	• Make sure the time was set initially. Probably power was lost.

Glossary

A complete list of definitions for words found in this guide.

75 OHM RF CABLE The round cable that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.

A/V CABLES Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

ADD This function lets you add new channels to the list that you'll scroll through when using your remote.

AMPLIFIER An external device that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

ANTENNA The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.

CAPTIONS A form of subtitling that writes out the dialog for your program.

CONVERGENCE This option lets you correct for color separation in your picture.

DELETE This function lets you remove channels that you don't watch from the list you'll scroll through.

ICON A small graphic item on your screen that represents a function or menu item.

INPUT Refers to the jack that receives a signal into the TV, VCR or other A/V device.

JACK A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jacks and the Audio/Video jacks that are color-coded.

MODE The mode determines the type of device (TV, VCR, Cable, Aux) that the remote is controlling.

MONO SOUND Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.

OUTPUT Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

PIP This is the most common way to refer to the Picture-In-Picture (PIP) option.

A complete list of definitions for words found in this guide.

SECOND AUDIO PROGRAMMING/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television screen.
SOURCE	The term for the equipment that provides audio and video information to your Entertainment Machine. Antenna, VCR, DVD players, or Cable Boxes are examples of sources.
STEREO SOUND	Stereo (stereophonic) sound refers to audio that's divided into right and left sides.
TEXT	Arbitrary text not related to the program.
TUNER	Any device that picks up broadcast signals and turns them into picture and sound.

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Your Zenith Warranty

Projection Color TV Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

Service Labor During a period of one year from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed as determined by Zenith, as a result of manufacturing defects.

Parts New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

OWNER'S RESPONSIBILITY

Effective Warranty Date Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Carry-In Service Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

Important Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance and Troubleshooting" in your operating guide. You might avoid a service call.

ZENITH ELECTRONICS CORPORATION
Zenith Response Center

201 James Record Rd., Building 3,
Huntsville, AL 35824
Telephone (256) 772-1515
Mon-Fri, 7:00 a.m.-8:00 p.m. CST
Sat. 8:00 a.m.-5:00 p.m. CST
www.zenith.com

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Additional Zenith Picture Tube Protection Plan Available
Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new Entertainment Machine. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your Entertainment Machine in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (256) 774-4088.

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